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Managing Nonpoint Sources of Pollution

January 1982 - July 1990

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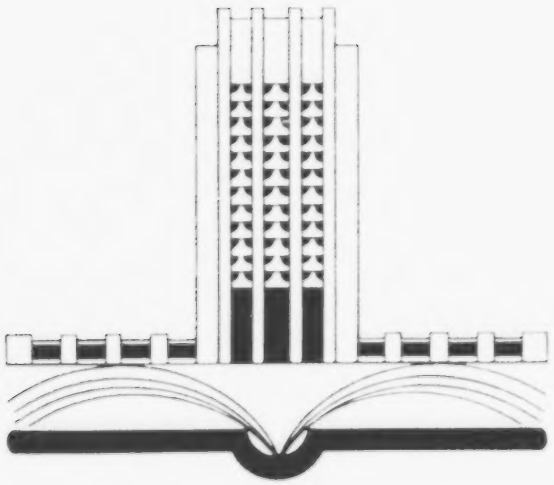

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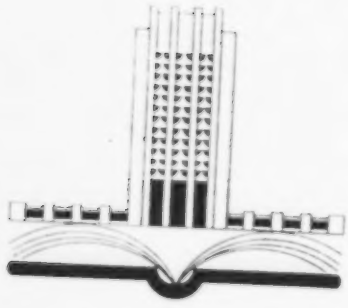
Managing Nonpoint Sources of Pollution

January 1982 - July 1990

Quick Bibliography Series: QB 91-50

227 citations in English from AGRICOLA

Jodee Kuske
Water Quality Information Center



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aZ5071.N3 no.91-50

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MANAGING NONPOINT SOURCES OF POLLUTION

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S2	5753	(MANURE? OR WASTE?(2N)(DAIRY OR SWINE OR POULTRY OR ANIMAL OR PLANT OR BARN OR BARNYARD OR FEEDLOT OR MILKHOUSE OR ORGANIC))/TI,DE,ID
S3	38	(RUNOFF(2N)(BARNYARD OR FEEDLOT OR MILKHOUSE OR MILK()HOUSE))/TI,DE,ID
S4	26128	(AGRICULTUR?()CHEMICAL? OR AGRICHEMICAL? OR FERTILI?ER? OR (NITROGEN OR COMPOUND OR PHOSPHORUS OR POTASSIUM OR LIQUID OR CALCIUM)()FERTILI?ER?)/TI,DE,ID
S5	54352	(PESTICID? OR HERBICID? OR ALGICID? OR FUNGICID? OR INSECTICID? OR RODENTICID? OR FUMIGANT? OR BACTERICID? OR AVICID? OR ACARICID? OR MOLLUSCICID? OR NEMATICID?)/TI,DE,ID OR SH=H000
S6	68353	(MANAGE? OR MANAGING)/TI,DE,ID OR SH=E200
S7	7954	(GROUND()WATER? OR GROUNDWATER? OR UNDERGROUND()WATER? OR AQUIFER? OR ARTESIAN? OR CISTERN? OR WELL? ? OR SPRINGS (WATER))/TI,DE,ID
S8	41788	(WATER(2N)(QUALIT? OR POLLUT? OR CONTAMINA?) OR RUNOFF OR SURFACE()WATER? OR RIVER? OR LAKE? ? OR STREAM? OR POND? ?)/TI,DE,ID OR SH=P200
S9	332	(S1 OR S2 OR S3 OR S4 OR S5) AND S6 AND (S7 OR S8)
S10	324	S9/ENG
S11	276	S10 AND UD=8201:9999

Managing Nonpoint Sources of Pollution

1 **NAL Call No: TD427.A35A36**
Agrichemicals and groundwater protection resources and strategies for state and local management : proceedings of a conference held October 24-25, 1988, St. Paul, Minnesota.
Freshwater Foundation
Navarre, Minn., U.S.A. (Box 90, Navarre 55392-0090) : The Foundation; 1989.
iv, 416 p. : ill. ; 28 cm. Includes bibliographical references.

Language: English

Descriptors: Agricultural chemicals--Environmental aspects--Case studies--CongresSes; Water, Underground--Purification--Case studies--Congresses; Water quality management--Case studies--Congresses

2 **NAL Call No: S605.5.A43**
Agricultural chemicals in ground water: preventing contamination by removing barriers against low-input farm management.
Fleming, M.H.
Greenbelt, Md. : Institute for Alternative Agriculture; 1987.
American journal of alternative agriculture v. 2 (3): p. 124-130; 1987. Includes references.

Language: English

Descriptors: Groundwater pollution; Agricultural chemicals; Alternative farming; Taxes; Fiscal policy

3 **NAL Call No: FICHE S-72**
Agricultural management practices and water quality.
Shirmohammadi, A.; Magette, W.L.; Shoemaker, L.L.
St. Joseph, Mich. : The Society; 1988.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 88-2035): 32 p.; 1988.
Paper presented at the 1988 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Water erosion; Runoff; Water composition and quality; Soil management; Farmland; Groundwater pollution; Surface water; Soil; Nitrogen; Losses

4 **NAL Call No: 56.8 J822**
Agricultural nonpoint pollution control: an assessment.
Braden, J.B.; Uchtmann, D.L.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 23-26; 1985 Jan. Includes 33 references.

Language: English

Descriptors: Water pollution; Water composition and quality; Land management; Erosion; Water resources; Pollution; Point source

5 **NAL Call No: TD423.E34**
Agricultural pollution--the farmers' view.
Payne, M.
Chichester, England : Published for the Water Research Centre by E. Horwood; 1986.
Effects of land use on fresh waters : agriculture, forestry, mineral exploitation, urbanization / editor, J.F. de L.G. Solbe. p. 329-340; 1986. (Ellis Horwood books in water and wastewater treatment). Includes references.

Language: English

Descriptors: United kingdom; Pollution by agriculture; Water pollution; Water resource management; Fertilizers; Runoff; Silage effluent; Slurries

6 **NAL Call No: 275.29 F22**
Agriculture and groundwater quality: the Florida experience.
Carriker, R.R.
Oak Brook, Ill. : Farm Foundation; 1987.
Increasing understanding of public problems and policies. p. 149-156; 1987. Includes references.

Language: English

Descriptors: Florida; Agricultural chemicals; Groundwater; Water composition and quality; Pesticides; Water management

7 **NAL Call No: SH390.7.A43**
Algae as weeds: economic impact, ecology, and management alternatives.
Lembi, C.A.; O'Neal, S.W.; Spencer, D.F.
Cambridge : Cambridge University Press; 1988.
Algae and human affairs / edited by Carole A. Lembi, J. Robert Waaland ; sponsored by the Phycological Society of America, Inc. p. 455-481; 1988. Literature review. Includes references.

Language: English

Descriptors: Algae; Aquatic weeds; Algicides; Biological control; Environmental impact reporting; Harvesting; Human resources; Problem analysis; Water pollution; Waterways

8 NAL Call No: 292.9 AM34
Alternatives to the use of agricultural drainage wells.
Kanway, R.S.; Baker, J.L.; Melvin, S.W.
Minneapolis, Minn. : American Water Resources Association; 1986 Aug.
Water resources bulletin v. 22 (4): p. 573-579. ill., maps; 1986 Aug. Includes references.

Language: English

Descriptors: Iowa; Drainage systems; Wells; Groundwater pollution; Pollution by agriculture; Pesticides; Fertilizers; Water supplies; Economic analysis

9 NAL Call No: TD223.A47
America's clean water the states' nonpoint source assessment 1985.
Association of State and Interstate Water Pollution Control Administrators
Washington, D.C. : Association of State and Interstate Water Pollution Control Administrators; 1985.
2 v. : ill., maps (some col.) ; 28 cm. Cover title. Vol. 2 is appendices.

Language: English

Descriptors: Water quality--United States; Water quality management--United States

10 NAL Call No: S631.3.S9 1973
Amounts, composition, and management of feedlot runoff.
Clark, R.N.; Stewart, B.A.
Bushland, Tex. : The Center; 1973.
Symposium on Animal Waste Management : USDA Southwestern Great Plains Research Center, Bushland, Texas, January 18, 1973 / sponsored by USDA Southwestern Great Plains Research Center ... [et al.]. p. 32-42. maps; 1973. Includes references.

Language: English

Descriptors: Feedlot effluent; Runoff; Seepage; Chemical composition

11 NAL Call No: Document available from source.
Anaerobic lagoons.
Olson, E. A.
Document available from: University of Nebraska-Lincoln, Dept. of Agricultural Communications, Lincoln, Nebraska 68583; 1974.
4 p. : ill. (Part of a subject series).

Language: English

Descriptors: Agricultural engineering; Waste management; Manure storage; Anaerobic; Lagoon

Abstract: This publication explains how anaerobic lagoons can be used as a low-cost method for storage and treatment of liquid manure from confinement swine buildings.

12 NAL Call No: Not available at NAL.
Animal agriculture and water quality.
Rouse, Gene; Melvin, S.W.; Herman, J. Clayton.&XIowa agriculture and water quality 1980; 1980.
4 p. : ill. (Part of a subject series.). Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011.

Language: English

Descriptors: Agricultural engineering; Waste management; Animal wastes; Animal science; Organic wastes; Livestock

Abstract: This publication discusses animal wastes from animal production. Waste impacts, animal production in Iowa, waste resource value, pollution pathways, and minimizing pollution are the topics discussed.

13 NAL Call No: TD423.B39
ANSWERS, areal nonpoint source watershed environment response simulation : user's manual.
Beasley, David B.; Huggins, Larry F.&XANSWERS users manual; Areal nonpoint source watershed environment response simulation United States, Environmental Protection Agency, Region V, United States, Environmental Protection Agency, Great Lakes National Program Office, United States, Agricultural Research Service, United States, Soil Conservation Service, United States, Agricultural Stabilization and Conservation Service, Purdue University, Agricultural Experiment Station.
Chicago, Ill. (536 S. Clark St., Room 932, Chicago, Ill. 60605) U.S. Environmental Protection Agency, Region V, Great Lakes National Program Office; 1981.

54 p. : ill. ; 28 cm. "PB83-115436. "EPA-905/9-82-001. Cover title: ANSWERS user manual. Also assisted by U.S. Dept. of Agriculture, ARS, SCS and ASCS and Agricultural Experiment Station, Purdue University. Bibliography: p. 30-31.

Language: English

Descriptors: Water--Pollution--Mathematical models; Watershed management--Mathematical models

14 NAL Call No: FICHE 290.9 AM32P
Application of a field-scale water quality model for evaluation of watershed land treatment project.
Nicks, A.D.; Burt, J.B.; Knisel, W.G.; Gander, G.A.
St. Joseph, Mich. : The Society; 1984.
Paper - American Society of Agricultural Engineers (Microfiche collection) (84-2633): 34 p.; 1984. Paper presented at the 1984 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road.

Language: English

Descriptors: Louisiana; Models; Water composition and quality; Water pollution; Pesticide contaminants; Watershed management

15 NAL Call No: 79.9 C122
Aquatic vegetation management and implications for groundwater quality and monitoring.
Ames, M.
Sacramento, Calif. : California Weed Conference Office; 1988.
Proceedings - California Weed Conference (40): p. 201-202; 1988. Paper presented at a conference on "Education and Communication--the Keys to the Future," January 18-21, 1988, Sacramento, California.

Language: English

Descriptors: California; Aquatic weeds; Herbicide application; Environmental legislation; Groundwater pollution; Water composition and quality

16 NAL Call No: TD223.G7
Assessing some potentials for changing agronomic practices and improving ground water quality--implications from a 1984 Iowa survey.
Padgitt, S.; Kaap, J.
Chelsea, MI : Lewis Publishers; 1987.
Ground water quality and agricultural practices / Deborah M. Fairchild, [editor]. p. 217-226. maps; 1987. Includes references.

Language: English

Descriptors: Iowa; Groundwater pollution; Water composition and quality; Water conservation; Nitrogen; Fertilizer application; Plant production; Management; Surveys

17 NAL Call No: 60.18 J82
Atrazine dissipation and off-plot movement in a Nebraska sandhills subirrigated meadow.
Brejda, J.J.; Shea, P.J.; Moser, L.E.; Waller, S.S.
Denver, Colo. : Society for Range Management; 1988 Sep.
Journal of range management v. 41 (5): p. 416-420; 1988 Sep. Includes references.

Language: English

Descriptors: Nebraska; Range management; Vegetation; Atrazine; Herbicides; Herbicide residues; Dispersion; Kinetics; Groundwater pollution; Runoff; Physico-chemical properties of soil

18 NAL Call No: QH540.J6
Azinphosmethyl and fenvalerate runoff loss from a sugarcane-insect IPM (integrated pest management) system (Guthion, Pydrin, insecticide, Saccharum officinarum, Diatraea saccharalis).
Smith, S.; JEVQA; Reagan, T.E.; Flynn, J.L.; Willis, G.H.
Madison : American Society of Agronomy; Oct/Dec 1983.
Journal of environmental quality v. 12 (4): p. 534-537; Oct/Dec 1983. Includes references.

Language: English

19 NAL Call No: aHD1401.A2U52
Balance sought between farm chemicals, water quality.
Washington, D.C. : The Service; 1988 May.
Farmline - United States Dept. of Agriculture, Economic Research Service v. 9 (5): p. 12-15. ill., maps; 1988 May.

Language: English

Descriptors: U.S.A.; Agricultural production; Agricultural chemicals; Water composition and quality; Profitability; Market competition; Groundwater; Farm management; Environmental

protection

20 NAL Call No: 79.9 W52R
Barley no-till weed management trial Riverside county: 1986.
Cudney, D.W.; Baameur, A.
S.l. : Western Society of Weed Science; 1987.
Research progress report - Western Society of Weed Science. p. 280-282; 1987.

Language: English

Descriptors: California; Hordeum vulgare; Brassica nigra; Volunteer plants; Herbicide recommendations; Herbicide rates; No-tillage systems

21 NAL Call No: 83-0041D
BAYOU PIERRE WATERSHED, COPIAH AND LINCOLN COUNTIES, MISSISSIPPI.
BAYOU PIERRE WATER MANAGEMENT DISTRICT; COPIAH COUNTY SOIL AND WATER CONSERVATION DISTRICT,LINCOLN COUNTY SOIL AND WATER CONSERVATION DISTRICT,PEARL RIVER BASIN DEVELOPMENT DISTRICT,DEPARTMENT OF AGRICULTURE, FOREST SERVICE
JACKSON, MISSISSIPPI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1982 (EPA: NOVEMBER 22; 1982.
127 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: BAYOU PIERRE; BAYOU PIERRE WATERSHED; CREEKS; DAMS; DIKES; EASEMENTS; EROSION CONTROL; FARMLANDS; FLOOD CONTROL; FLOODPLAINS; FORESTS; LAND MANAGEMENT; RECREATION FACILITIES; RECREATION RESOURCES; RECREATION RESOURCES MANAGEMENT; SEDIMENT CONTROL; WATER QUALITY; WATER STORAGE; WATERSHEDS; WETLANDS; EXECUTIVE ORDER 11990--WETLANDS; FEDERAL WATER POLLUTION CONTROL ACT OF 1972--SECTION 404 PERMITS; WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954--PROJECT AUTHORIZATION

Abstract: (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PROJECT WITHIN THE 241,229-ACRE BAYOU PIERRE WATERSHED IN COPIAH AND LINCOLN COUNTIES OF SOUTHWESTERN MISSISSIPPI IS PROPOSED. THE PREFERRED SCHEME WOULD INVOLVE PROVISION OF 23.8 MAN-YEARS OF TECHNICAL ASSISTANCE TO ACCELERATE PLANNING AND IMPLEMENTATION OF LAND-TREATMENT MEASURES AND CONSTRUCTION OF 13 FLOODWATER-RETARDING STRUCTURES AND A MULTIPLE-PURPOSE STRUCTURE FOR FLOOD CONTROL AND RECREATIONAL USE. DURING THE 10-YEAR PROJECT PERIOD, APPROXIMATELY 13,433 ACRES OF LAND WOULD BE TREATED UNDER THE ONGOING LAND-TREATMENT PROGRAM. AN ADDITIONAL 16,502 ACRES WOULD BE TREATED UNDER THE ACCELERATED PROGRAM DURING THE SAME PERIOD. LAND-TREATMENT MEASURES WOULD INCLUDE VARIOUS GRASSLAND RESOURCE MANAGEMENT SYSTEMS, FOREST-TREATMENT MEASURES, AND CROPLAND DEVELOPMENT PLANS. LAND TREATMENT WOULD BE CONCENTRATED IN AREAS IN WHICH EROSION RATES ARE HIGH. FLOOD-CONTROL MEASURES WOULD INCLUDE FLOODPROOFING OF ONE RESIDENTIAL STRUCTURE IN THE FLOODPLAIN BY CONSTRUCTING A DIKE AROUND THE BUILDING AND CONSTRUCTION OF 13 FLOODWATER-RETARDING STRUCTURES AND A MULTIPLE-PURPOSE STRUCTURE TO CONTROL RUNOFF ON AN AREA TOTALING 128.4 SQUARE MILES OR 39.97 PERCENT OF THE WATERSHED DRAINAGE. THE STRUCTURES, WHICH WOULD CONSIST OF COMPACTED EARTHFILL DAMS, REINFORCED CONCRETE SPILLWAYS, AND VEGETATED EMERGENCY SPILLWAYS, WOULD BE DESIGNED FOR PERMANENT STORAGE OF SEDIMENT AND TEMPORARY STORAGE OF FLOOD FLOWS. THE MULTIPLE-PURPOSE STRUCTURE WOULD BE ACCOMPANIED BY RECREATIONAL STRUCTURES ASSOCIATED WITH SWIMMING, PICNICKING, FAMILY CAMPING, BOATING, FISHING, AND HIKING. EASEMENTS WOULD BE PURCHASED ON 383

ACRES OF BUFFER ZONES ALONG CHANNELS TO PREVENT UNDUE ENCROACHMENT INTO THE FLOODPLAIN. ESTIMATED INSTALLATION COST FOR THE PROJECT IS $11.0 MILLION, AND THE BENEFIT-COST RATIO ASSOCIATED WITH STRUCTURAL MEASURES OF THE PROJECT IS 1.5. (POS)FLOOD-CONTROL BENEFITS WOULD ACCRUE TO 205 LANDOWNERS OWNING 19,782 ACRES OF LAND

22 NAL Call No: 56.8 J822
Belgrave Creek: a successful nonpoint pollution control project in rural Ontario.
Puddister, M.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 84-86. ill., maps; 1985 Jan. Includes references.

Language: English

Descriptors: Ontario; Water pollution; Point source; Control methods; Resource management; Programs

23 NAL Call No: S544.3.N5F7
Best management practices (BMP's) for soil conservation and animal waste control.
Shelton, T.B.; Olohan, M.T.
New Brunswick, N.J. : The Service; 1987.
FS - Cooperative Extension Service, Cook College (192): 2 p.; 1987.

Language: English

Descriptors: New Jersey; Animal wastes; Waste disposal; Manure spreading; Water conservation; Management skills

24 NAL Call No: S494.5.W3T68
Best management practices for control of nitrogen pollution by farm and feedlot.
Gardner, W.R.; Watson, J.E.
Denver, Colo. : U.S. Committee on Irrigation and Drainage; 1986.
Toxic substances in agricultural water supply and drainage : defining the problems : proceedings from the 1986 regional meetings sponsored by the U.S. Comm on Irrig and Drainage / edited by J.B. Summers and S.S. Anderson. p. 299-303; 1986. Includes references.

Language: English

Descriptors: Arizona; Pollution by agriculture; Nitrogen fertilizers; Feedlots; Agricultural wastes; Groundwater pollution

25 NAL Call No: 56.8 J822
Best management practices for controlling nonpoint-source pollution on forested watersheds.
Lynch, J.A.; Corbett, E.S.; Mussallem, K.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 164-167; 1985 Jan. Includes references.

Language: English

Descriptors: Watershed management; Point source; Water pollution; Control methods; Forest resources; Forest influences

26 NAL Call No: SB614.E58
Biological parameters of the TVA eurasian watermilfoil management program.
Stanley, R.A.; Gangstad, E.O.
Boca Raton, Fla. : CRC Press; 1987.
Environmental management of water projects / editors, Edward O. Gangstad, Ronald A. Stanley. p. 35-47; 1987. Includes references.

Language: English

Descriptors: U.S.A.; Aquatic weeds; Myriophyllum spicatum; Weed control; Programs; Herbicide resid es; Water pollution

27 NAL Call No: TD223.P39
Bridging the gap between water quality and nonpoint source activities: a continuum of institutional arrangements.
Hague, B.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 79-84; 1985. Includes references.

Language: English

Descriptors: U.S.A.; Water composition and quality; Water resources; Regulations; States; Federal government; Water pollution; Control

28 NAL Call No: FICHE S-72
Broiler manure management and ground water quality.
Harris, J.R. Jr
St. Joseph, Mich. : The Society; 1987.

American Society of Agricultural Engineers (Microfiche collection) (fiche no. 87-4048): 15 p.; 1987. Paper presented at the 1987 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Poultry manure; Application to land; Groundwater pollution

29 **NAL Call No: 79.9 N814**
Changes in nutrient cycling following aerial application of triclopyr to release spruce-fir.
Smith, C.T.; Hornbeck, J.W.; McCormack, M.L. Jr
College Park, Md. : The Society; 1988.
Proceedings of the annual meeting - Northeastern Weed Science Society v. 42: p. 95-99; 1988. Meeting held January 6, 7 & 8, 1988 in Hartford, Connecticut. Includes references.

Language: English

Descriptors: Maine; Picea rubens; Abies balsamea; Triclopyr; Herbicide application; Forest management; Nutrient balance; Water pollution; Soil pollution

30 **NAL Call No: S539.5.A77**
Citrus nitrogen fertilizer management, groundwater pollution, soil salinity and nitrogen balance.
Embleton, T.W.; Matsummura, M.; Stolzy, L.H.; Devitt, D.A.; Jones, W.W.; El-Motaium, R.; Summers, L.L.
New York : Springer; 1986.
Applied agricultural research v. 1 (1): p. 57-64; 1986. Includes references.

Language: English

Descriptors: Citrus limon; Citrus macrophylla; Nitrogen fertilizers; Groundwater pollution; Soil salinity

31 **NAL Call No: KF26.E6 1983b**
Clean Water Act Amendments : non-point source management program : hearings before the Committee on Environment and Public Works, United States Senate, Ninety-eighth Congress, first session, July 19, 1983--Washington, D.C., August 24, 1983--Moorehead, Minn.
United States Congress Senate Committee on Environment and Public Works.
Washington, (D.C.) U.S. G.P.O.; 1983.
v, 672 p. : ill., forms, maps ; 24 cm. (S. hrg. ; 98-420). Distributed to some depository libraries in microfiche. Item 1045-A, 1045-B (microfiche). Includes bibliographical references.

Language: English

Descriptors: Water--Pollution--United States; Water quality--United States; Water pollution control industry--United States; Federal aid to water quality management--United States

32 **NAL Call No: KF27.M447 1988k**
Coastal water quality hearing before the Subcommittee on Fisheries and Wildlife Conservation and the Environment and the Subcommittee on Oceanography of the Committee on Merchant Marine and Fisheries, House of Representatives, One Hundredth Congress, second session on impact of nonpoint source pollution on coastal water quality, July 13, 1988.
United States. Congress. House. Committee on Merchant Marine and Fisheries. Subcommittee on Fisheries and Wildlife Conservation and the Environment; United States, Congress, House, Committee on Merchant Marine and Fisheries, Subcommittee on Oceanography
Washington, [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.; 1988.
v, 161 p. : ill., maps ; 24 cm. Distributed to some depository libraries in microfiche. Serial no. 100-77. Item 1021-B, 1021-C (microfiche). Includes bibliographical references.

Language: English

Descriptors: Estuarine pollution--United States; Water--Pollution--United States; Intracoastal waterways--Environmental aspects--United States; Water quality management--United States; Coastal Zone management--United States

33 **NAL Call No: aS622.S6**
Computer model guides way to cleaner water.
Krider, J.N.
Washington, D.C. : The Service; 1987 May.
Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service v. 8 (2): p. 3-4. ill; 1987 May.

Language: English

Descriptors: Water pollution; Water composition

and quality; Computers; Models; Erosion; Sediments; Runoff water

34 NAL Call No: TD223.C676
Conceptual framework for assessing agricultural nonpoint source projects : for the project Rural nonpoint source control water quality evaluation and technical assistance.
Johnson, DeAnne D.&XRural nonpoint source control water quality evaluation and technical assistance
Raleigh, N.C. North Carolina Agricultural Extension Service, Biological and Agricultural Engineering Dept., North Carolina State University; 1981.
ix, 60 p. : ill. ; 28 cm. USDA Cooperative Agreement-12-05-300-472; EPA Interagency Agreement-AD-12-F-0-037-0. "In cooperation with EPA Implementation Branch, Water Planning Division, Washington, D.C., ASCS, SCS, CES, ERS, North Carolina Agricultural Research Service, Raleigh, North Carolina." -- cover. December 1981.

Language: English

Descriptors: Water quality management--United States

35 NAL Call No: S631.C63 1983
Conclusions of the Colloquium and recommendations (to science and agriculture).
Laudelout, H.
Bern, Switzerland : The Institute; 1983.
Nutrient balances and the need for fertilizers in semi-arid and arid regions : proceedings of the 17th Colloquium of the International Potash Institute held in Rabat and Marrakech, Morroco. p. 393-394; 1983.

Language: English

Descriptors: Developing countries; Arid regions; Semiarid Zones; Dry farming; Irrigated farming; Rain-fed farming; Fertilizers; Nutrient availability; Water management; Conferences

36 NAL Call No: GB1005.V728
Control and management of agricultural impact on groundwater.
Lolaja, V.; Vrba, J.; Zwirnmann, K.H.
Hanover : Heise; 1986.
Impact of agricultural activities on ground water / J. Vrba, E. Romijn. P. 197-229. ill; 1986. (International contributions to hydrogeology ; v. 5). Includes references.

Language: English

Descriptors: Groundwater; Water composition and quality; Systems approach; Water management; Pollution by agriculture; Nitrates; Pesticides

37 NAL Call No: TD201.V57 no.158
Control of nonpoint source pollution in Virginia an assessment of the local role.
Cox, William Edward,1944-; Herson, Lorraine M.
Virginia Water Resources Research Center, Geological Survey (U.S.)
Blacksburg, Va. : Virginia Water Resources Research Center, Virginia Polytechnic Institute and State University, [1987?]; 1987.
xi, 90 p. ; 23 cm. (Bulletin / Virginia Water Resources Research Center ; 158). Partly funded by the U.S. Geological Survey, Dept. of the Interior. November 1987. Includes bibliographies.

Language: English

Descriptors: Water--Pollution--Virginia; Water quality management--Virginia

38 NAL Call No: TD223.3.C66 1986
Cooperating for clean water case studies of agricultural nonpoint source pollution control in the Great Lakes states.
Bushwick, Nancy; Hiemstra, Hal D.; Brichford, Sarah
NASDA Research Foundation, Farmland Project
Washington, D.C. : Farmland Project of the National Association of State Departments of Agriculture Research Foundation; 1986.
139 p. : ill., maps ; 28 cm. Includes bibliographies.

Language: English

Descriptors: Agricultural pollution--Great Lakes Region; Water--Pollution--Great Lakes Region; Water quality management--Great Lakes Region

39 NAL Call No: TD223.3.C66 1987a
Cooperating for clean water estimating water quality improvements from management of agricultural nonpoint source pollution.
Bushwick, Nancy; Brichford, Sarah; Brockway, Randy
NASDA Research Foundation, Farmland Project
Washington, D.C. : Farmland Project of the National Association of State Departments of Agriculture Research Foundation; 1987.
15 p. ; 28 cm. Briefing paper 2. March, 1987.

Language: English

Descriptors: Agricultural pollution--Great Lakes Region; Water--Pollution--Great Lakes Region; Water quality management--Great Lakes Region

40 NAL Call No: TD223.3.C66 1987b
Cooperating for clean water institutional issues in agricultural nonpoint source pollution control policy.
Bushwick, Nancy; Brichford, Sarah; Brockway, Randy
NASDA Research Foundation, Farmland Project
Washington, D.C. : Farmland Project of the National Association of State Departments of Agriculture Research Foundation; 1987.
16 p. ; 28 cm. Briefing paper 3. March, 1987.

Language: English

Descriptors: Agricultural pollution--Great Lakes Region; Water--Pollution--Great Lakes Region; Water quality management--Great Lakes Region

41 NAL Call No: TD223.3.C66 1987
Cooperating for clean water lessons learned about agricultural nonpoint source pollution control in the Great Lakes states.
Bushwick, Nancy; Brichford, Sarah; Brockway, Randy
NASDA Research Foundation, Farmland Project
Washington, D.C. : Farmland Project of the National Association of State Departments of Agriculture Research Foundation; 1987.
15 p. ; 28 cm. Briefing paper 1. March, 1987.

Language: English

Descriptors: Agricultural pollution--Great Lakes Region; Water--Pollution--Great Lakes Region; Water quality management--Great Lakes Region

42 NAL Call No: TD428.A37A36 1983
CREAMS (Chemical, Runoff, and Erosion from Agricultural Management Systems): a system for evaluating management practices.
Knisel, W.G.; Foster, G.R.; Leonard, R.A.
Ames : Iowa State University Press, 1983; 1983.
Agricultural management and water quality / edited by F.W. Schaller, G.W. Bailey. p. 178-199. ill; 1983. Includes references.

Language: English

43 NAL Call No: 290.9 AM32T
CREAMS representation for hydrology and sedimentology of central Illinois.
Ewing, L.K.
St. Joseph, Mich. : American Society of Agricultural Engineers; 1989 Sep.
Transactions of the ASAE v. 32 (5): p. 1599-1604. maps; 1989 Sep. Includes references.

Language: English

Descriptors: Illinois; Erosion; Runoff; Models

44 NAL Call No: TD196.P38E57 1987
Current research on pesticides and surface water contamination.
Felsot, A.S.
Springfield, Ill. : Illinois Dept. of Energy and Natural Resources; 1988.
Pesticides and pest management : proceedings of the 16the ENR annual conference, November 12 and 13, 1987 / prepared by Deborah Cavanaugh ; sponsored by Illinois Department of Energy and Natural Resources ... [et al.]. p. 109-119; 1988. Includes references.

Language: English

Descriptors: Illinois; Pesticides; Research projects; Surface water; Contamination; Watershed management; Runoff control

45 NAL Call No: 100 ID14
Dairy waste management system planning--estimating storage.
Falk, D.E.; Ohlensehlen, R.M.
Moscow, Idaho : The Station; 1989 Jun.
Bulletin - Idaho Agricultural Experiment Station v.): 16 p. ill; 1989 Jun. Includes references.

Language: English

Descriptors: Dairy farming; Animal wastes; Management; Systems; Farm planning; Farm storage; Water pollution; Odor abatement; Investment; Costs; Design criteria; Handling; Waste water treatment; Biological techniques; Anaerobic treatment; Lagoons

46 NAL Call No: 56.9 SO32
Dairy-siting criteria and other options for wastewater management on high water-table soils.
Allen, L.H. Jr
S.l. : The Society; 1988.
Proceedings - Soil and Crop Science Society of Florida v. 47: p. 108-127. ill., maps; 1988. Includes references.

Language: English

Descriptors: Florida; Dairy wastes; Waste waters;

Ssoil types; Soil properties; Site requirements; Waste water treatment; Water table; Water composition and quality; Eutrophication; Phosphorus

47 NAL Call No: TD223.P39
A data management system to evaluate water quality impacts of nonpoint source pollution control.
Smolen, M.D.; Dressing, S.A.; Maas, R.P.; Spooner, J.; Jamieson, C.A.; Newell, A.D.; Humenik, F.J.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 429-432. maps; 1985. Includes references.

Language: English

Descriptors: North Carolina: Water composition and quality; Quality controls; Water pollution; Pollution by agriculture; Control; Databases; Computer software

48 NAL Call No: TD223.1.C4 1986
The Delaware solution to poultry manure management and groundwater quality.
Harris, J.R. Jr
University Park, PA : Northeast Regional Center for Rural Development; 1987 Jan.
Chautauqua groundwater workshop for extension agents : proceedings of the workshop held at the Chautauqua Institution, Chautauqua, New York, May 7-9, 1986 / editor, Althea Rudd. p. 145-157; 1987 Jan. (Northeast Regional Center for Rural Development publication ; no. 48). Includes references.

Language: English

Descriptors: Delaware; Poultry manure; Waste treatment; Waste disposal; Groundwater pollution; Drinking water; Water composition and quality; Wells

49 NAL Call No: TD223.P39
Developing nonpoint source control strategies for Big Stone Lake: two approaches.
Reetz, G.F.; Bjork, T.; Mulloy, P.J.; German, D.R.; Heiskary, S.A.; Roberts, D.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 88-92. maps; 1985. Includes references.

Language: English

Descriptors: Minnesota; South Dakota; Lakes; Water resource management; Water pollution; Control; Pollution by agriculture; Programs

50 NAL Call No: 82-0213D
DIAMOND CREEK WATERSHED, CHASE AND MORRIS COUNTIES, KANSAS.
CHASE COUNTY CONSERVATION DISTRICT; DIAMOND CREEK WATERSHED JOINT DISTRICT NO. 61,MORRIS COUNTY CONSERVATION DISTRICT,DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE
SALINA, KANSAS DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE NOVEMBER 1981 (EPA: JANUARY 29; 1981.
72 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: BURNING (PRESCRIBED); CREEKS; DAMS; EASEMENTS; ENDANGERED SPECIES (ANIMALS); EROSION CONTROL; FARMLANDS; FLOOD CONTROL; FORESTS; LAKES; LAND MANAGEMENT; LIVESTOCK; RANGE MANAGEMENT; RANGES; RESERVOIRS; SEDIMENT CONTROL; TOPEKA SHINER; VEGETATION; WATERSHEDS; WILDLIFE; FEDERAL WATER POLLUTION CONTROL ACT OF 1972--SECTION 404 PERMITS; WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954--FUNDING

Abstract: (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PLAN FOR THE 104,070-ACRE DIAMOND CREEK WATERSHED IN CHASE AND MORRIS COUNTIES, KANSAS IS PROPOSED. WATERSHED CONSERVATION DISTRICTS WOULD OFFER TECHNICAL ASSISTANCE TO LANDOWNERS TO IMPROVE 8,450 ACRES OF RANGELAND BY RANGE SEEDING, DEVELOPING PONDS,

AND IMPLEMENTING BRUSH AND GRAZING MANAGEMENT SYSTEMS. APPROXIMATELY 1,650 ACRES OF RANGE WOULD BE SEEDED, AND 39 PONDS WOULD BE DEVELOPED TO PROVIDE WATER FOR LIVESTOCK. BRUSH CONTROL MANAGEMENT PRACTICES, INCLUDING MOWING, SPRAYING, CUTTING, AND BURNING, WOULD BE APPLIED ON 1,250 ACRES. WILDLIFE HABITAT MANAGEMENT PRACTICES WOULD BE IMPLEMENTED WITHIN SELECTED TRIBUTARY WOODLAND AREAS ON WHICH EASEMENTS WERE OBTAINED; EASEMENTS WOULD MOST LIKELY BE OBTAINED ON A TOTAL OF 130 ACRES OF LAND. WILDLIFE MANAGEMENT PRACTICES WOULD INCLUDE AN INFORMATIONAL PROGRAM, DEVELOPMENT OF MANAGEMENT PLANS, AND INSTALLATION OF FENCING. ELEVEN FLOODWATER-RETARDING DAMS WOULD BE CONSTRUCTED. EACH DAM WOULD CONSIST OF AN EARTHFILL STRUCTURE WITH A DROP-INLET TYPE PRINCIPAL SPILLWAY. EACH SPILLWAY WOULD HAVE A SINGLE-STAGE UNCONTROLLED INLET. RELEASE RATES WOULD AVERAGE APPROXIMATELY 16 CUBIC FEET PER SECOND PER SQUARE MILE OF DRAINAGE AREA. STILLING BASINS AT PRINCIPAL SPILLWAY OUTLETS WOULD DISSIPATE ENERGY AND MINIMIZE EROSION. THE DAMS WOULD CONTROL RUNOFF FROM 45.8 PERCENT OF THE WATERSHED AND WOULD HAVE A COMBINED STORAGE CAPACITY OF 14,908 ACRE-FEET AND A COMBINED FULL CAPACITY SURFACE AREA OF 1,615 ACRES. ALL STRUCTURES WOULD BE ABLE TO CONTAIN A 100-YEAR ACCUMULATION OF SEDIMENT. WILDLIFE COMPENSATION MEASURES WOULD INCLUDE ESTABLISHMENT AND MANAGEMENT OF NATIVE GRASS AND FORBS ON 113 ACRES, IN ADDITION TO ESTABLISHMENT OF WOODY PLANTS ON 94 ACRES OR RETENTION AND IMPROVEMENT OF EXISTING RIPARIAN WOODLAND HABITAT ON 208 ACRES OR A COMBINATION OF WOODY PLANT ESTABLISHMENT AND IMPROVEMENT OF EXISTING HABITAT. ESTIMATED COST OF THE PROJECT IS $6.0 MILLION, AND THE B

51 NAL Call No: TC401.
The economics of silvicultural best manageme practices.
Dissmeyer, G.E.; Frandsen, E.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association techni publication series TPS (88-4): p. 77-86; 1988 N
In the series analytic: Nonpoint pollution: 198 policy, economy, management, and appropri technology / edited by V. Novotny. Includes ref ences.

Language: English

Descriptors: U.S.A.; Forest resources; Land sources; Water resource management; Soil ma agement; Forestry economics; Fore management; Water pollution; Control; Econor analysis

52 NAL Call No: HD1407.
Economics of size in dairy farm adjustment water quality constraints.
Heimlich, R.E.
Ithaca, N.Y., The Station; July 1982.
Cornell agricultural economics staff paper - De of Agricultural Economics, Cornell Univers Agricultural Experiment Station (82-20): 14 July 1982. 9 ref.

Language: English

Descriptors: Dairy farms; Farm size; Manure; N point pollution; Water quality

Abstract: Extract: Adjustment of small, mediu and large Vermont dairy farms to successiv tighter constraints on phosphorus loss w modeled using linear programming. Aggreg response to phosphorus control was estimated an area from farm marginal costs. Medium a large farms have lower costs than small farms could achieve higher levels of phosphorus red tion at the same proportional loss of income.

53 NAL Call No: 10 AC
The effect of fertilizers and soil management the quality of water supplies (Eutrophicati water pollution, United Kingdom).
Horne, B.; AGPGA
London : Agricultural Education Associati 1982.
Agricultural progress v. 57: p. 26-34; 1982. 20 r

Language: English

Descriptors: United Kingdom

54 NAL Call No: aSD433.A53

The effectiveness of silvicultural nonpoint source control programs for several Southern states.

Ice, G.G.

Asheville, N.C. : The Station; 1989 Jan.

General technical report SE - U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station (50): p. 163-168. maps; 1989 Jan. Paper presented at a "Symposium on the Forested Wetlands of the Southern United States," July 12-14, 1988, Orlando, Florida. Includes references.

Language: English

Descriptors: South eastern states of U.S.A.; Water pollution; Silviculture; Wetlands; Legislation

55 NAL Call No: 83-0187D

ENERGY MINERALS LEASING AND RANGELAND MANAGEMENT IN THE LAS CRUCES/LORDSBURG RESOURCE AREA, NEW MEXICO.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT LAS CRUCES, NEW MEXICO DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT MARCH 1983 (EPA: MARCH 8; 1983.

432 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: EROSION CONTROL; GEOTHERMAL RESOURCES; GRAZING; HERBICIDES; LEASING; LIVESTOCK; MINERAL RESOURCES; MINERAL RESOURCES MANAGEMENT; NATURAL GAS; OIL PRODUCTION; PIPELINES; PLANT CONTROL; RANGE MANAGEMENT; RANGES; STORAGE; VEGETATION; WATERSHEDS; WELLS; WILDERNESS; WILDLIFE; MINERAL LEASING ACT FOR ACQUIRED LANDS ACT OF 1947--PROJECT AUTHORIZATION; MINERAL LEASING ACT OF 1920--PROJECT AUTHORIZATION

Abstract: (PUR)MODIFICATION OF EXISTING CONSTRAINTS ON ENERGY MINERALS LEASING AND IMPLEMENTATION OF A RANGELAND MANAGEMENT PROGRAM IN THE LAS CRUCES/LORDSBURG RESOURCE AREA OF SOUTHWESTERN NEW MEXICO ARE PROPOSED. THE 9.1-MILLION-ACRE RESOURCE AREA LIES IN DONA ANA, LUNA, HIDALGO, AND GRANT COUNTIES; RANGE MANAGEMENT MEASURES WOULD BE CONFINED TO LUNA, HIDALGO, AND GRANT COUNTIES. THE PREFERRED MINERAL RESOURCES MANAGEMENT SCHEME WOULD CLOSE 9,836 ACRES TO LEASING, ALLOW LEASING WITH SPECIAL STIPULATIONS ON 675,894 ACRES, AND ALLOW LEASING WITHOUT SPECIAL STIPULATIONS ON THE REMAINING 3.1 MILLION ACRES. STIPULATIONS AFFECTING MINERAL RESOURCE DEVELOPMENT WITHIN THE RESOURCE AREA WOULD INCLUDE THOSE THAT WOULD ALERT THE LESSEE TO SPECIAL OR WILDERNESS VALUES WITHIN THE LEASE AREA OR PREVENT INSTALLATION OR CONSTRUCTION OF STRUCTURES ABOVEGROUND. EXPLORATORY AND DEVELOPMENTAL ACTIVITIES WOULD BE ALLOWED TO EXPLOIT OIL, GAS, AND GEOTHERMAL RESOURCES WITHIN THE AREA. THE RANGE MANAGEMENT SCHEME WOULD INVOLVE NEGOTIATING WITH LAND-USE PERMITTEES FOR ALLOCATION OF FORAGE, BASED ON A CURRENT GRAZING-USE REGIMEN THAT DESIGNATES 227,031 ANIMAL UNIT MONTHS (AUMS) FOR LIVESTOCK USE. FORAGE ALLOTTED TO BIG GAME WOULD DECLINE FROM 2,154 AUMS TO 1,917 AUMS. BY THE YEAR 2000, FORAGE ALLOTTED TO LIVESTOCK AND BIG GAME WOULD BE 257,402 AUMS AND 3,498 AUMS, RESPECTIVELY. LIVESTOCK GRAZING WOULD BE AUTHORIZED ON ALL ALLOTMENTS NOW BEING GRAZED. GRAZING ACREAGE WOULD INCLUDE 447,210 ACRES MANAGED FOR MAINTENANCE USE, 68,366 ACRES FOR CUSTODIAL USE, AND 1.1 MILLION ACRES FOR IMPROVEMENT USE. RANGELAND DEVELOPMENTS TO BE INSTALLED OR CONSTRUCTED IN ASSOCIATION WITH THE PROGRAM WOULD INCLUDE 25 DIRT TANKS, 67 MILES OF PIPELINE, 47 DRINKING TROUGHS, 11 WELLS, 1 CATTLEGUARD, 17 STORAGE TANKS, 68 EROSION DIKES, 55 MILES OF FENCE, AND 4 UMBRELLA

CATCHMENTS. WELL DEVELOPMENT WOULD INVOLVE USE OF WINDMILLS WHEREVER POSSIBLE. VEGETATION TREATMENTS WOULD BE IMPLEMENTED VIA USE OF HERBICIDES ON 42,279 ACRE

56 NAL Call No: S544.3.N6N62
Environmental impacts of conservation tillage.
Cook, M.G.
Raleigh, N.C. : The Service; 1989 Jan.
AG - North Carolina Agricultural Extension Service, North Carolina State University (407): p. 51-55; 1989 Jan. In series analytic: Conservation Tillage for Crop Production in North Carolina, edited by M.G. Cook and W.M. Lewis.

Language: English

Descriptors: North Carolina; Tillage; Soil and water conservation; Pesticide residues; Groundwater pollution; Denitrification; Nature conservation; Spraying precautions

57 NAL Call No: SB614.E58
Environmental management of water projects.
Gangstad, Edward O.,1925-; Stanley, Ronald A.
Boca Raton, Fla. : CRC Press; 1987.
158 p. : ill. ; 28 cm. Includes bibliographies and index.

Language: English

Descriptors: Aquatic weeds--Control; Aquatic herbicides; Water resources development--Environmental aspects; Reservoir ecology

58 NAL Call No: HC79.E5E5
Environmental management problems in India.
Bowonder, B.
New York : Springer-Verlag; 1986 Sep.
Environmental management v. 10 (5): p. 599-609. maps; 1986 Sep. Includes references.

Language: English

Descriptors: India; Environmental policy; Industrialization; Deforestation; Urbanization; Population density; Air pollution; Water pollution; Pesticide degradation products

59 NAL Call No: 100 Or3M no. 817
Evaluating coliform concentrations in runoff from various animal waste management systems.
Moore, James A.
Corvallis, Or. : Agricultural Experiment Stations, Oregon State University; 1988.
iii, 80 p. : ill. ; 28 cm. (Special report / Oregon State University. Agricultural Experiment Station ; 817). "January 1988"--Cover. Bibliography: p. 67-80.

Language: English

60 NAL Call No: 100 Or3 no.658
Evaluating dairy waste management systems' influence on fecal coliform concentration in runoff.
Moore, James A.
Corvallis Oregon State University, Agricultural Experiment Station; 1982.
ii, 101 p. : ill. ; 28 cm. (Oregon. Agricultural Experiment Station. Station bulletin ; no. 658). "A final report for a project funded under Section 208 of the Federal Clean Water Act through ... Tillamook Soil and Water Conservation District, Soil and Water Conservation Commission, Oregon Department of Environmentl Quality, (and) U.S. Environmental Protection Agency. "November 1982"--Cover. OR HEO/Ag8/2.4B87:658. Bibliography: p. 70-86.

Language: English

Descriptors: Dairying

61 NAL Call No: 292.9 AM34
An evaluation of alternative policies for controlling agricultural nonpoint source pollution [Rural clean water program, Agricultural Stabilization and Conservation Service].
Kramer, R.A.; McSweeny, W.T.; Kerns, W.R.; Stavros, R.W.
Minneapolis, Minn. : American Water Resources Association; 1984 Dec.
Water resources bulletin v. 20 (6): p. 841-846; 1984 Dec. Includes references.

Language: English

Descriptors: Pollution by agriculture; Sources; Control; Policy; Regulations; Management

62 NAL Call No: 292.9 AM34
Evaluation of best management practices for controlling nonpoint pollution from silvicultural operations.
Lynch, J.A.; Corbett, E.S.
Minneapolis, Minn. : American Water Resources Association; 1990 Feb.
Water resources bulletin v. 26 (1): p. 41-52; 1990 Feb. Includes references.

Language: English

Descriptors: Forest management; Water pollution; Water composition and quality; Clearcutting; Silviculture

63 NAL Call No: 58.8 C164
Evaluation of best management practices to control phosphorus nonpoint source pollution.
Rousseau, A.; Dickinson, W.T.; Rudra, R.P.
Ottawa : Canadian Society of Agricultural Engineering; 1987 Jul.
Canadian agricultural engineering v. 29 (2): p. 163-168. maps; 1987 Jul. Includes references.

Language: English

Descriptors: Ontario; Water pollution; Pollution by agriculture; Phosphorus fertilizers; Crop management; Microwatersheds; Erosion control

64 NAL Call No: 292.9 AM34
Evaluation of management practices to control agricultural pollutants.
McTernan, W.F.; Weand, B.L.; Grizzard, T.J.
Minneapolis, Minn. : American Water Resources Association; 1987 Aug.
Water resources bulletin v. 23 (4): p. 691-700. ill., maps; 1987 Aug. Includes references.

Language: English

Descriptors: Virginia; Watersheds; Pollution by agriculture; Land use; Minimum tillage systems; Crop management; Mathematical models; Water pollution; Runoff; Agricultural land

65 NAL Call No: HD62.6.K45
Farm chemicals in groundwater strategies for nonprofits.
Kemp, Loni
Minnesota Project (Organization)
Minn. : Minnesota Project; 1988.
101 p. ; 28 cm. April, 1988. "Prepared for the Ford Foundation."--Cover.

Language: English

Descriptors: Corporations, Nonprofit--United States--Management; Environmental policy--United States--Citizen participation; Agricultural chemicals--Environmental aspects--United States; Water, Underground--Pollution--United States

66 NAL Call No: 916762(AGE)
Farmer participation in the Hall County ACP (Agricultural Conservation Program) special water quality project, Nebraska, 1980.
Hoover, H.; Oscar, R.
Washington, D.C. : The Service; Mar 1982.
ERS staff report - United States Dept. of Agriculture, Economic Research Service (AGES820319): 24 p.; Mar 1982. Available from NTIS, order no. PB83-151381.

Language: English

Descriptors: Nebraska; Farm operators; Attitudes; Conservation practices; Nitrogen; Fertilizer; Groundwater; Water quality; Farming methods; Surveys

Abstract: Extract: A sample of 103 farm operators in the Hall County Agricultural Conservation Program (ACP) Special Water Quality Project area in Nebraska was interviewed to determine perceptions of water quality problems and awareness of the ACP Special Water Quality Project. Two-thirds of the farm operators indicated that high nitrate concentrations in the groundwater was a problem. While three operators in the four indicated a need to reduce the leaching of nitrates, only half of the sample agreed that irrigation contributed to the problem. Over 70 percent of the operators used nitrate management practices and 81 percent followed recommended nitrogen fertilizer application rates.

67 NAL Call No: TD171.U5
A "fitting solution" at Snake Creek, Utah.
Wann, D.
Washington, D.C. : Office of Public Awareness; 1986 May.
EPA Environmental Protection Agency journal v. 12 (4): p. 15-16; 1986 May.

Language: English

Descriptors: Utah; Water pollution; Pollution by agriculture; Phosphorus residual effect; Irrigation; Water management; Environmental impact reporting

68 NAL Call No: GB1016.E3 1987
The flux of nitrate nitrogen beneath a Connecticut corn field.
Marin, P.A.
Dublin, OH : National Water Well Association; 1987.
Proceedings of the Fourth Annual Eastern Regional Ground Water Conference : July 14-16, 1987, Radisson Hotel, Burlington, Vermont / co-sponsored by the Association of Ground Water Scientists and Engineers ... [et al.]. p. 343-369. ill., maps; 1987. Includes references.

Language: English

Descriptors: Connecticut; Zea mays; Farm management; Nitrate nitrogen; Groundwater flow; Wells; Water supplies; Drinking water

69 **NAL Call No: TD201.W92**
French forests thrive on sludge.
Wiseman, R.
London : T. Telford Ltd; 1988 Jul.
World water v. 11 (6): p. 34. ill; 1988 Jul.

Language: English

Descriptors: France; Waste water treatment; Sewage sludge; Utilization; Organic fertilizers; Forest management; Forest soils; Soil water retention; Nitrates, Leaching; Afforestation; Demonstration forests

70 **NAL Call No: S631.3.S9 1973**
Future developments in feedlot waste management.
Sweeten, J.M.
Bushland, Tex. : The Center; 1973.
Symposium on Animal Waste Management : USDA Southwestern Great Plains Research Center, Bushland, Texas, January 18, 1973 / sponsored by USDA Southwestern Great Plains Research Center ... [et al.]. p. 43-50; 1973. Includes references.

Language: English

Descriptors: Feedlot wastes; Waste disposal; Water pollution; Recycling

71 **NAL Call No: 60.18 UN33**
The future of turfgrass management and underground water quality.
Watschke, T.L.
Far Hills, N.J. : United States Golf Association; 1986 Sep.
USGA Green Section record v. 24 (5): p. 6-7. ill; 1986 Sep.

Language: English

Descriptors: Fertilizers; Pesticides; Runoff; Lawns and turf; Groundwater pollution; Water composition and quality

72 **NAL Call No: 290.9 AM32T**
GLEAMS: groundwater loading effects of agricultural management systems.
Leonard, R.A.; Knisel, W.G.; Still, D.A.
St. Joseph, Mich. : The Society; 1987 Sep.
Transactions of the ASAE - American Society of Agricultural Engineers v. 30 (5): p. 1403-1418. ill; 1987 Sep. Includes references.

Language: English

Descriptors: Groundwater flow; Hydrology; Agricultural chemicals; Erosion; Simulation models

73 **NAL Call No: A99.9 F7622UN**
Glyphosate controls hardwoods in West Virginia (Herbicides, watershed management, Picea abies, tolerance).
Wendel, G.W.; Kochenderfer, J.N.
Broomall, Pa., The Station; 1982.
USDA Forest Service Research Paper NE - United States, Northeastern Forest Experiment Station (497): 7 p. ill; 1982. 6 ref.

Language: English

Descriptors: West Virginia; Watersheds; Forests

74 **NAL Call No: S95.E2**
The grass may be greener, but.
Petrovic, A.M.; Hummel, N.W. Jr
Ithaca, N.Y. : New York Agric. Exp. Stations and New York State College of Agric. & Life Sciences; 1987.
New York's food and life sciences quarterly v. 17 (1): p. 24-26. ill; 1987. Includes references.

Language: English

Descriptors: Lawns and turf; Integrated pest management; Groundwater pollution; Water composition and quality

75 **NAL Call No: 82-0714F**
GRAZING MANAGEMENT IN THE PINYON PLANNING UNIT, UTAH.
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CEDAR CITY, UTAH DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT SEPTEMBER 1982 (EPA: SEPTEMBER 24; 1982.
2 VOLUMES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: PINYON PLANNING UNIT; UTAH;

BURNING (PRESCRIBED); GRAZING; HERBICIDES; LIVESTOCK; PIPELINES; PLANT CONTROL; RANGE MANAGEMENT; RANGES; RESERVOIRS; VEGETATION; WATER WELLS; WELLS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--COMPLIANCE; PUBLIC RANGELANDS IMPROVEMENT ACT OF 1978--COMPLIANCE; TAYLOR GRAZING ACT OF 1934--COMPLIANCE

Abstract: (PUR)IMPLEMENTATION OF A GRAZING MANAGEMENT PLAN FOR THE 1.3 MILLION ACRES OF PUBLIC LAND WITHIN THE 1.6-MILLION-ACRE PINYON PLANNING UNIT IN SOUTHWESTERN UTAH IS PROPOSED. THE UNIT INCLUDES THE WESTERN HALVES OF IRON AND BEAVER COUNTIES AND SMALL PORTIONS OF MILLARD AND WASHINGTON COUNTIES. THE PREFERRED MANAGEMENT SCHEME WOULD INVOLVE AN ATTEMPT TO PROVIDE FOR A BALANCED MULTIPLE-USE RESOURCE PROGRAM. MAJOR MANAGEMENT ACTIONS WOULD INCLUDE DESIGN AND IMPLEMENTATION OF LIVESTOCK GRAZING SYSTEMS ON SELECTED ALLOTMENTS, VEGETATION TREATMENT ON 98,000 ACRES, AND INSTALLATION OF RANGELAND FACILITIES. OVER THE LONG TERM, IT IS ANTICIPATED THAT THE ACTIONS CARRIED OUT UNDER THIS MANAGEMENT REGIME WOULD INCREASE STOCKING LEVELS FOR WILDLIFE AND LIVESTOCK FROM CURRENT LEVELS OF 2,662 ANIMAL UNIT MONTHS (AUMS) AND 60,757 AUMS TO 5,407 AUMS AND 88,103 AUMS, RESPECTIVELY. WILD HORSE AUMS WOULD BE REDUCED FROM CURRENT LEVELS OF 8,345 AUMS TO 3,225 AUMS AND STABILIZED AT THAT LEVEL. GRAZING SYSTEMS FOR THE UNIT WOULD INVOLVE CONTINUATION OF REST ROTATION ON 2 ALLOTMENTS CONTAINING 55,887 ACRES AND IMPLEMENTATION OF NEW RESTORATION REGIMES ON 13 ALLOTMENTS CONTAINING 293,362 ACRES, CONTINUATION OF DEFERRED GRAZING STATUS ON 3 ALLOTMENTS CONTAINING 40,895 ACRES AND IMPLEMENTATION OF DEFERRED GRAZING STATUS ON 8 ALLOTMENTS CONTAINING 204,408 ACRES, CONTINUATION OF SEASONAL GRAZING ON 26 ALLOTMENTS CONTAINING 539,767 ACRES, AND CONTINUATION OF THE UNALLOTTED STATUS ON 40,446 ACRES. VEGETATION TREATMENTS WOULD INCLUDE CHAINING, PRESCRIBED BURNING, BROADCAST SEEDING, PLOW-AND-DRILL SEEDING, AND HERBICIDE SPRAYING. RANGE FACILITIES TO BE CONSTRUCTED OR INSTALLED WOULD INCLUDE 131 MILES OF PIPELINE, 20 SPRING DEVELOPMENTS, 65 TROUGHS, 152 MILES OF FENCE, 4 CATTLEGUARDS, 5 RESERVOIRS, AND 3 WATER WELLS. (POS)IMPLEMENTATION OF THE MANAGEMENT SCHEME WOULD RESULT IN THE GENERAL IMPROVEMENT OF RANGELAND, RESOLUTION OF FORAGE ALLOCATION CONFLICTS BETWEEN LIVESTOCK AND WILDLIFE AND WILD HORSE

76 **NAL Call No: 82-0493D**

GRAZING MANAGEMENT IN THE PINYON PLANNING UNIT, UTAH.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CEDAR CITY, UTAH DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT JUNE 1982 (EPA: JUNE 23; 1982. 211 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: PINYON PLANNING UNIT; UTAH; BURNING (PRESCRIBED); GRAZING; HERBICIDES; LIVESTOCK; PIPELINES; PLANT CONTROL; RANGE MANAGEMENT; RANGES; RESERVOIRS; VEGETATION; WATER WELLS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--COMPLIANCE; PUBLIC RANGELANDS IMPROVEMENT ACT OF 1978--COMPLIANCE; TAYLOR GRAZING ACT OF 1934--COMPLIANCE

Abstract: (PUR)IMPLEMENTATION OF A GRAZING MANAGEMENT PLAN FOR THE 1.3 MILLION ACRES OF PUBLIC LAND WITHIN THE 1.6-MILLION-ACRE PINYON PLANNING UNIT IN SOUTHWESTERN UTAH IS PROPOSED. THE UNIT INCLUDES

THE WESTERN HALVES OF IRON AND BEAVER COUNTIES AND SMALL PORTIONS OF MILLARD AND WASHINGTON COUNTIES. THE PREFERRED MANAGEMENT SCHEME WOULD INVOLVE AN ATTEMPT TO PROVIDE FOR A BALANCED MULTIPLE-USE RESOURCE PROGRAM. MAJOR MANAGEMENT ACTIONS WOULD INCLUDE DESIGN AND IMPLEMENTATION OF LIVESTOCK GRAZING SYSTEMS ON SELECTED ALLOTMENTS, VEGETATION TREATMENT ON 98,000 ACRES, AND INSTALLATION OF RANGELAND FACILITIES. OVER THE LONG TERM, IT IS ANTICIPATED THAT THE ACTIONS CARRIED OUT UNDER THIS MANAGEMENT REGIME WOULD INCREASE STOCKING LEVELS FOR WILDLIFE AND LIVESTOCK FROM CURRENT LEVELS OF 2,662 ANIMAL UNIT MONTHS (AUMS) AND 60,757 AUMS TO 5,407 AUMS AND 88,103 AUMS, RESPECTIVELY. WILD HORSE AUMS WOULD BE REDUCED FROM CURRENT LEVELS OF 8,345 AUMS TO 3,225 AUMS AND STABILIZED AT THAT LEVEL. GRAZING SYSTEMS FOR THE UNIT WOULD INVOLVE CONTINUATION OF REST ROTATION ON 2 ALLOTMENTS CONTAINING 55,887 ACRES AND IMPLEMENTATION OF NEW RESTORATION REGIMES ON 13 ALLOTMENTS CONTAINING 293,362 ACRES, CONTINUATION OF DEFERRED GRAZING STATUS ON 3 ALLOTMENTS CONTAINING 40,895 ACRES AND IMPLEMENTATION OF DEFERRED GRAZING STATUS ON 8 ALLOTMENTS CONTAINING 204,408 ACRES, CONTINUATION OF SEASONAL GRAZING ON 26 ALLOTMENTS CONTAINING 539,767 ACRES, AND CONTINUATION OF THE UNALLOTTED STATUS ON 40,446 ACRES. VEGETATION TREATMENTS WOULD INCLUDE CHAINING, PRESCRIBED BURNING, BROADCAST SEEDING, PLOW-AND-DRILL SEEDING, AND HERBICIDE SPRAYING. RANGE FACILITIES TO BE CONSTRUCTED OR INSTALLED WOULD INCLUDE 131 MILES OF PIPELINE, 20 SPRING DEVELOPMENTS, 65 TROUGHS, 152 MILES OF FENCE, 4 CATTLEGUARDS, 5 RESERVOIRS, AND 3 WATER WELLS. (POS)IMPLEMENTATION OF THE MANAGEMENT SCHEME WOULD RESULT IN THE GENERAL IMPROVEMENT OF RANGELAND, RESOLUTION OF FORAGE ALLOCATION CONFLICTS BETWEEN LIVESTOCK AND WILDLIFE AND WILD HORSE

77 NAL Call No: 83-0343

GRAZING MANAGEMENT PROGRAM FO THE TOOELE PLANNING AREA, UTAH.

DEPARTMENT OF THE INTERIO BUREAU OF LAND MANAGEMENT SALT LAKE CITY, UTAH DEPARTMENT O THE INTERIOR, BUREAU OF LAND MAN AGEMENT JUNE 1983 (EPA: JUNE 6; 1983. 110 PAGES. USDA EMPLOYEES REQUES DOCUMENTS FROM NATIONAL AGRICUL TURAL LIBRARY OTHERS ORDER FRO INFORMATION RESOURCES PRESS, 17 NORTH MOORE STREET, SUITE 70 0, A LINGTON, VA 22209.

Language: English

Descriptors: BIGHORN SHEEP; CULTURA RESOURCES; FORESTS; GRAZING; HE BICIDES; INDIAN RESERVATIONS; LAN MANAGEMENT; LIVESTOCK; MOTO VEHICLES; PIPELINES; PLANT CONTRO RANGE MANAGEMENT; RANGES; RECR ATION RESOURCES; RESERVOIRS; SOCI ECONOMIC ASSESSMENTS; TIMBE MANAGEMENT; VEGETATION; VISUA RESOURCES; WATER QUALITY; FEDERA LAND POLICY AND MANAGEMENT A OF 1976--COMPLIANCE; NATURAL R SOURCES DEFENSE COUNCIL ET AL -- JAMES G. WATT ET AL; TAYLOR GRAZI ACT OF 1934--COMPLIANCE; JAMES WATT ET AL --V. NATURAL RESOURC DEFENSE COUNCIL ET AL

Abstract: (PUR)REVISION OF GRAZI MANAGEMENT IS PROPOSED FOR 1.5 M LION ACRES OF LAND WITHIN GRAZING ALLOTMENTS MANAGED THE BUREAU OF LAND MANAGEME (BLM) IN THE 4.5-MILLION-ACRE TOOE PLANNING AREA OF UTAH. THIS EN RONMENTAL IMPACT STATEMENT FILED PURSUANT TO THE FIN FEDERAL COURT JUDGEMENT FOR CI ACTION NO. 1983-73, NATURAL R SOURCES DEFENSE COUNCIL ET VERSUS SECRETARY OF THE INTERI JAMES G. WATT, ET AL.; THE JUDGEME FORCES BLM TO PREPARE 144 SI SPECIFIC STATEMENTS PRESENTING T ENVIRONMENTAL EFFECTS OF LIV TOCK GRAZING ACTIVITIES ON PUB

LANDS. THE AREA, WHICH ENCOMPASSES ALL OF TOOELE COUNTY AND SMALL PORTIONS OF JUAB, SALT LAKE, UTAH, AND BOX ELDER COUNTIES, CONTAINS 2.0 MILLION ACRES OF BLM-ADMINISTERED PUBLIC LAND, 1.5 MILLION ACRES OF DEPARTMENT OF DEFENSE LAND, AND 1.0 MILLION ACRES OF FOREST SERVICE, STATE, PRIVATE, AND INDIAN RESERVATION LANDS. THE REVISED GRAZING PROGRAM WOULD INVOLVE ALLOCATION OF 42,020 ANIMAL UNIT MONTHS (AUMS) TO CATTLE, 67,556 AUMS TO SHEEP, 1,740 AUMS TO WILD HORSES, 31,846 AUMS TO DEER, 1,565 AUMS TO ANTELOPE, 642 AUMS TO ELK, AND 189 AUMS TO ROCKY MOUNTAIN BIGHORN SHEEP. TWENTY-FIVE ALLOTMENTS WOULD UNDERGO SEASON-OF-USE CHANGES, AND THREE ALLOTMENT BOUNDARY CHANGES WOULD BE MADE. LAND TREATMENT WOULD INCLUDE 18,040 ACRES OF CHAINING AND SEEDING, 670 ACRES OF BURNING, 4,400 ACRES OF BURNING AND SEEDING, 7,360 ACRES OF HERBICIDE APPLICATION, AND 7,686 ACRES OF PLOWING AND SEEDING. RANGE DEVELOPMENTS TO BE CONSTRUCTED OR INSTALLED WOULD INCLUDE 60 MILES OF PIPELINE, 19 SPRINGS, 30 WELLS, 173 MILES OF RANGE FENCE, 11 MILES OF FENCE TO PROTECT RIPARIAN HABITAT, 27 RESERVOIRS, 9 GUZZLERS, AND 28 CATTLEGUARDS. (POS)IMPLEMENTATION OF THE PROGRAMMED LAND TREATMENTS WOULD INCREASE AUMS ALLOCATED TO BIG GAME AND LIVESTOCK BY 1,973 AUMS AND 3,391 AUMS, RESPECTIVELY. RANGE CONDITIONS WOULD BE IMPROVED OR MAINTAINED ON ALL ALLOTMENTS. MORE THAN 45,000 CORDS OF FIREWOOD AND AN UNQUANTIFIED NUMBER OF FENCE POSTS COULD BE

78 **NAL Call No: FICHE S-72**
Ground water models for assessing agricultural best management practice.
Shoemaker, L.L.; Magette, W.L.
St. Joseph, Mich. : The Society; 1987.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 87-2021): 13 p.; 1987. Paper presented at the 1987 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Models; Groundwater pollution; Fertilizer application; Pesticide application; Leaching

79 **NAL Call No: S541.5.V5R4**
Ground water monitoring for agricultural chemicals: a review of existing practices.
Skinner, M.; Parker, B.L.
Burlington, Vt. : The Station; 1988 May.
Research report - Vermont Agricultural Experiment Station (54): 63 p. ill; 1988 May. Literature review. Includes references.

Language: English

Descriptors: Pesticide contaminants; Groundwater pollution; Water resource management; Monitoring; Sampling; Wells

80 **NAL Call No: 1.90 C2OU8**
Groundwater quality: a catalyst for a new land management ethic.
Olsenius, C.
Washington, D.C. : The Department; 1989.
Outlook - Proceedings, Agricultural Outlook Conference, U.S. Department of Agriculture (65th): p. 443-451; 1989. Meeting held November 29-December 1, 1988, Washington, D.C. Includes references.

Language: English

Descriptors: U.S.A.; Groundwater pollution; Land use planning; Land management; Water management; Erosion; Sediment pollution; Agricultural chemicals

81 **NAL Call No: GB701.W375 no.88-4123**
Ground-water-quality-monitoring program in Iowa nitrate and pesticides in shallow aquifers.
Detroy, Mark G.; Hunt, Pamela K. B.; Holub, Maureen A.
Geological Survey (U.S.),University of Iowa, Hygienic Laboratory, Iowa, Environmental Protection Division
Iowa City, Iowa : U.S. Geological Survey; 1988.
vi, 32 p. : ill., maps ; 28 cm. (Water-resources investigations report ; 88-4123). Bibliography: p. 30-32.

Language: English

Descriptors: Water, Underground--Iowa--Quality; Water quality--Iowa; Water quality management--Iowa; Water quality monitoring stations--Iowa; Pesticides--Environmental aspects--Iowa; Nitrates--Environmental aspects--Iowa

82 NAL Call No: TD365.G8
Guidelines for evaluation of agricultural nonpoint source water quality projects.
United States, EPA Interagency Taskforce, United States, Dept. of Agriculture.
Washington, D.C. U.S. Environmental Protection Agency, Implementation Branch, Water Planning Division; 1982.
viii, 59 p. (loose-leaf) : ill. ; 28 cm. Cover title. "October 1982. Printing of this document was done under the project: "Rural nonpoint source control water quality evaluation and technical assistance", USDA cooperative agreement, 12-05-300-472; EPA Interagency agreement, AD-12-F-0-37-0. Bibliography: p. 35.

Language: English

Descriptors: Water quality management--United States; Water--Pollution--United States--Point source identification

83 NAL Call No: 79.8 W41
Herbicide performance in rice (Oryza sativa) under three flooding conditions (Echinochloa crus-galli, Sesbania exalta, water management, Mississippi Delta).
Richard, E.P. Jr; Street, J.E.
Champaign : Weed Science Society of America; Mar 1984.
Weed science v. 32 (2): p. 157-162; Mar 1984. Includes references.

Language: English

Descriptors: Mississippi; Deltas

84 NAL Call No: QH540.J6
Herbicide residues from winter wheat plots: effect of tillage and crop management.
Brown, D.F.; McCool, D.K.; Papendick, R.L.; McDonough, L.M.
Madison, Wis. : American Society of Agronomy; 1985 Oct.
Journal of environmental quality v. 14 (4): p. 521-532; 1985 Oct. Includes references.

Language: English

Descriptors: Washington; Triticum aestivum; Pisum sativum; Metribuzin; Bromoxynil; Residual effects; Soil pollution; Runoff; Tillage; Crop management; Winter; Erosion

85 NAL Call No: QH540.S7
How to reduce nitrogen losses in intensive-grassland management.
Steenvoorden, J.H.A.M.
Copenhagen K : Munksgaard International Booksellers and Publishers; 1988.
Ecological bulletins v. 39: p. 126-130; 1988. In the series analytic: Ecological implications of contemporary agriculture / edited by H. Eijsackers and A. Quispel. Proceedings of a Symposium held Sept 7-12, 1986, Wageningen, Netherlands. Includes references.

Language: English

Descriptors: Grasslands; Intensification; Nitrogen fertilizers; Groundwater pollution; Nitrogen; Vaporization; Runoff

86 NAL Call No: SB614.H9
Impact of integrated aquatic weed management on water quality in a citrus grove.
Canfield, D.E. Jr; JAPMD
Vicksburg : Aquatic Plant Management Society; July 1983.
Journal of aquatic plant management v. 21 (2): p. 69-73; July 1983. Includes references.

Language: English

87 NAL Call No: TD426.J68
Impact of nitrogen fertilizers on groundwater quality--some examples from Czechoslovakia.
Pekny, V.; Skorepa, J.; Viba, J.
Amsterdam : Elsevier; 1989 Feb.
Journal of contaminant hydrology v. 4 (1): p. 51-67. maps; 1989 Feb. Includes references.

Language: English

Descriptors: Czechoslovakia; Groundwater pollution; Pollution by agriculture; Nitrogen fertilizers; Water composition and quality; Water management; Aquifers

88 NAL Call No: 292.9 AM34
Implementation strategies for agricultural and silvicultural nonpoint source pollution control in California and Wisconsin.
Spangenberg, N.E.
Minneapolis, Minn. : American Water Resources Association; 1987 Feb.

Water resources bulletin v. 23 (1): p. 133-137; 1987 Feb. Includes references.

Language: English

Descriptors: California; Wisconsin; Pollution by agriculture; Silviculture; Control methods; Water pollution; Watersheds; Program evaluation; Water resource management

89 **NAL Call No: aSD433.A53**
Implementing nonpoint source control: should BMPs equal standards?
Solomon, R.
Asheville, N.C. : The Station; 1989 Jan.
General technical report SE - U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station (50): p. 155-162; 1989 Jan. Paper presented at a "Symposium on the Forested Wetlands of the Southern United States," July 12-14, 1988, Orlando, Florida. Includes references.

Language: English

Descriptors: Water pollution; Legislation; Public agencies; State government; Land use; Monitoring

90 **NAL Call No: TD223.P39**
Implementing the public/private nonpoint source management partnership: a state forestry perspective.
Davis, R.L.; Miller, R.L.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 325-329; 1985. Includes references.

Language: English

Descriptors: Oklahoma; Water pollution; Control; Environmental policy; Water management; State forests; Forest management; Water composition and quality

91 **NAL Call No: 57.8 SO4**
Improved N management can alleviate groundwater pollution.
Randall, G.W.
Peoria, Ill. : Solutions Magazine; 1986 Jul.
Solutions v. 30 (5): p. 44-48; 1986 Jul. Includes references.

Language: English

Descriptors: Groundwater; Water pollution; Pollution by agriculture; Nitrogen fertilizers; Nitrates; Fertilizer placement; Nitrification inhibitors

92 **NAL Call No: TC424.I3I4 no.210**
Improvement of lake water quality by paying farmers to abate nonpoint source pollution.
Lupi, Frank; Farnsworth, Richard L.; Braden, John B.
University of Illinois at Urbana-Champaign, Water Resources Center, Geological Survey (U.S.), Branch of Water Institute Programs
Urbana, IL : Water Resources Center; 1988.
x, 96 p. : ill., maps ; 28 cm. (WRC research report ; no. 210.). "Final completion report to the U.S. Geological Survey, U.S. Department of the Interior"--Cover. December 1988. "UILU-WRC-88-210"--Cover. Bibliography: p. 67-72.

Language: English

Descriptors: Agricultural pollution--Illinois--Prevention--Mathematical models; Water--Pollution--Illinois--Prevention--Mathematical models; Watershed management--Illinois; Agricultural subsidies--Illinois

93 **NAL Call No: 292.9 AM34**
Infiltration and water quality on range sites at Fort Stanton, New Mexico.
Wood, J.C.; Wood, M.K.
Minneapolis, Minn. : American Water Resources Association; 1988 Apr.
Water resources bulletin v. 24 (2): p. 317-323; 1988 Apr. Includes references.

Language: English

Descriptors: New Mexico; Rangelands; Watershed management; Livestock; Stocking density; Grazing effects; Plant community analysis; Infiltration; Rain; Water composition and quality; Hydrological factors; Fertilizer application

94 **NAL Call No: TD224.D3R57**
Influence of nitrogen management and irrigation on ground-water quality completion report.
Ritter, William F.
University of Delaware, Water Resources Center
Newark, DE : Water Resources Center, University of Delaware; 1987.
18 leaves : ill. ; 28 cm. Cover title. August, 1987. Project No. G-897/07. Includes bibliographical references.

Language: English

Descriptors: Water, Underground--Delaware--

Quality; Nitrogen fertilizers--Environmental aspects--Delaware; Irrigation--Environmental aspects--Delaware

95 NAL Call No: TC401.A5
An institution-sensitive approach to the use of economic instruments for nonpoint source water pollution control.
Feitelson, E.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 67-76; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny.

Language: English

Descriptors: Maryland; Water pollution; Pollution by agriculture; Control; Land use; Land management; Subsidies; Tax credits; Easements; Fees; Regulations

96 NAL Call No: TC401.A5
An integrated experience the Milwaukee River East-West Branch Watershed resource management plan.
Gayan, S.L.; D'Antuono, J.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 165-172. maps; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Wisconsin; Watershed management; River water; Water resource management; Programs; Integration

97 NAL Call No: SB950.2.A1J58
Integrated pest management on the ground in northeastern Iowa.
Bentley, K.
Eugene, Or. : The Coalition; 1989.
Journal of pesticide reform : a publication of the Northwest Coalition for Alternatives to Pesticides v. 8 (4): p. 13-16. ill., maps; 1989.

Language: English

Descriptors: Iowa; Integrated pest management; Groundwater pollution; Pesticides; Springs (water); River basins; Extension activities; Biological control

98 NAL Call No: TC401.A5
Integrated resource management: Region V's nonpoint source control and clean lakes program.
Davenport, T.E.; Roberts, D.E.; Kirshner, B.A.; Loggins, C.E.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 149-154; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Michigan; Illinois; Wisconsin; Minnesota; Lakes; Water resource management; Water pollution; Control; Programs; Integration

99 NAL Call No: SB403.O7
Irrigation water recirculating systems.
Green, J.L.
Corvallis, Or. : The Service; 1989 Jan.
Ornamentals northwest - Cooperative Extension Service, Oregon State Univeristy v. 13 (1): p. 3-7; 1989 Jan. Includes references.

Language: English

Descriptors: Nursery management; Irrigation systems; Hydroponics; Water composition and quality; Root systems; Root Zone temperature; Fungicide application; Teaching materials

100 NAL Call No: TC401.A5
Issues in water quality modeling of agricultural management practices: an economic perspective.
Crowder, B.M.
Bethesda, Md. : The Association; 1987.
American Water Resources Association technical publication series TPS (87-2): p. 313-327; 1987. Paper presented at the "Symposium on Monitoring, Modeling, and Mediating Water Quality," May 1987. Includes references.

Language: English

Descriptors: U.S.A.; Water composition and quality; Simulation models; Pollution by agriculture; Environmental policy; Hydrological models

101 NAL Call No: S544.3.V5M3
Issues of chemicals as factors in food production, marketing, and water pollution: the perspective of the agricultural sector.
Rajotte, E.G.

Blacksburg, Va. : The Service; 1984 Dec.
M.B. - Virginia Polytechnic Institute and State University. Cooperative Extension Service (322): p. 73-81. maps; 1984 Dec. Includes 8 references.

Language: English

Descriptors: Virginia; Chemicals; Food production; Marketing; Water pollution; Fertilizers; Pesticides; Tillage; Integrated pest management

102 **NAL Call No: HD1417.S8**
Japan'S Suwa basin: a regional agricultural model.
Kitamura, T.; Nakamura, R.; Ikeda, S.; Tsunjii, H.; Matsuda, M.; Hoshino, S.; Matsuo, Y.; Nakayama, M.
Dordrecht : M. Nijhoff; 1988.
Sustainable development in agriculture / edited by Jyoti K. Parikh. p. 209-251. maps; 1988. Includes references.

Language: English

Descriptors: Honshu; Plant production; Systems analysis; Agricultural households; Regional development; Land use; Natural resources; Resource availability; Linear models; Linear programming; Recursive programming; Case studies; Sustained yield management; Simulation models; Runoff; Water pollution

10**NAL Call No: Document available from source.**
Land application of manure and wastewater (Part 1).
White, R. K.; Moran, K. L.&XAvoiding water pollution and nuisances
Document available from: Ohio State University, Extension Office of Information, 2120 Fyffe Road, Columbus, Ohio 43210; 1981.
4 p. : ill. (Part of a subject series).

Language: English

Descriptors: Agricultural engineering; Waste management

Abstract: This publication includes suggestions that will help a farmer avoid water pollution and nuisance problems associated with the land spreading of manure.

104 **NAL Call No: TD223.P39**
Land use monitoring and assessment for nonpoint source pollution control.
Hopkins, R.B. Jr; Clausen, J.C.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 25-29. maps; 1985. Includes references.

Language: English

Descriptors: Vermont; Water pollution; Control; Pollution by agriculture; Land use; Monitoring; Water composition and quality; Watershed management

105 **NAL Call No: TD224.I8K4**
Little Sioux River synthetic organic compound municipal well sampling survey.
Kelley, Richard; Wnuk, Monica
Iowa, Dept. of Water, Air, and Waste Management
Des Moines : The Department; 1986.
24 p. : 1 map ; 28 cm. March, 1986. Bibliography: p. 24.

Language: English

Descriptors: Water quality--Iowa--Little Sioux River basin--Measurement; Water, Underground--Pollution--Iowa--Little Sioux River basin; Organic water pollutants--Iowa--Little Sioux River basin; Drinking water--Iowa--Little Sioux River basin--Contamination; Pesticides--Environmental aspects--Iowa--Little Sioux River basin

106 **NAL Call No: 81-0868F**
Livestock Grazing Management for the Benton:N-Owens Valley Planning Unit, California.
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT BAKERSFIELD, CALIFORNIA DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT JULY 1981 (EPA: SEPTEMBER 11; 1981.
2 VOLUMES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: CALIFORNIA; BURNING (PRESCRIBED); ENDANGERED SPECIES (PLANTS); FISH SLOUGH MILK VETCH; GRAZING; HERBICIDES; IMPACT ASSESSMENT METHODOLOGY; JOHN'S

LOCOWEED; LIVESTOCK; MONO BUCKWEAT; PLANT CONTROL; RANGE MANAGEMENT; RANGES; RECREATION RESOURCES; SPRING-LOVING CENTUARY; VEGETATION; VISUAL RESOURCES SURVEYS; WATER QUALITY ASSESSMENTS; WILDERNESS; WILDLIFE; ENDANGERED SPECIES ACT OF 1973--PLANTS; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--COMPLIANCE; PUBLIC RANGELANDS IMPROVEMENT ACT OF 1978--COMPLIANCE; TAYLOR GRAZING ACT OF 1934--COMPLIANCE

Abstract: (PUR)IMPLEMENTATION OF A LIVESTOCK GRAZING MANAGEMENT PLAN FOR THE BENTON AND OWENS VALLEY PLANNING UNITS, WHICH CONTAIN 542,000 ACRES OF PUBLIC LAND NEAR BISHOP, CALIFORNIA, IS PROPOSED. THE PLAN WOULD ALLOCATE 18,462 ANIMAL UNIT MONTHS (AUMS) OF FORAGE TO LIVESTOCK, 187 AUMS TO WILD HORSES, AND 2,967 AUMS TO MULE DEER AND TULE ELK. WITHIN THE TWO UNITS, INTENSIVE MANAGEMENT PRACTICES WOULD BE IMPLEMENTED ON 8 ALLOTMENTS, THROUGH EITHER REST-ROTATION OR DEFERRED-ROTATION GRAZING, WHILE 41 ALLOTMENTS WOULD BE MANAGED LESS INTENSIVELY. ACREAGE ADJUSTMENTS WOULD BE MADE ON 28 ALLOTMENTS, GRAZING-USE ADJUSTMENTS ON 42 ALLOTMENTS, AND SEASONS-OF-USE ADJUSTMENTS ON 35 ALLOTMENTS. APPROXIMATELY 147 MILES OF FENCE AND 60 NEW WATER DEVELOPMENTS WOULD BE CONSTRUCTED, AND CHEMICAL BRUSH CONTROL PRACTICES WOULD BE IMPLEMENTED ON 7,360 ACRES, PRESCRIBED BURNING ON 29,000 ACRES, AND SEEDING ON 14,720 ACRES. SEVERAL MONITORING PROGRAMS WOULD BE CARRIED OUT TO ENSURE THE EFFECTIVENESS OF THE MANAGEMENT PLAN. ESTIMATED COST OF IMPLEMENTING THE PLAN IS APPROXIMATELY $990,000. (POS)THE PLAN WOULD REDUCE FORAGE ALLOCATIONS BY 12 PERCENT TO BRING ALL ALLOTMENTS BUT ONE (WELLS MEADOW) INTO STOCKING LEVELS THAT MATCH CARRYING CAPACITIES. FORAGE PRODUCTION ON 80,000 ACRES OF RANGELAND WOULD INCREASE BY 26 PERCENT OVER A 25-YEAR PERIOD, AND THE ECOLOGICAL CONDITION OF THIS ACREAGE WOULD IMPROVE AS WELL. THE ADDITIONAL RANGE FACILITIES WOULD IMPROVE THE DISTRIBUTION OF LIVESTOCK GRAZING. (NEG)VEGETATION TREATMENTS WITHIN FOUR WILDERNESS STUDY AREAS WOULD VIOLATE INTERIM MANAGEMENT POLICY GUIDELINES AND DISRUPT THE PRISTINE NATURE OF THESE AREAS. PRESCRIBED BURNING PRACTICES WOULD DEGRADE AIR QUALITY AND EXACERBATE WIND AND SOIL EROSION ON AFFECTED LAND. VEGETATION TREATMENTS AND CONSTRUCTION OF RANGE FACILITIES WOULD IMPAIR CULTURAL, RECREATIONAL, VISUAL, AND WILDERNESS VALUES WITHIN THE RANGELANDS, AND THE RANGE FACILITIES WOULD IMPEDE THE MOVEMENT OF WILD HORSES AND OTHER WILDLIFE. LIVEST

107 **NAL Call No: 280.8 J822**
Low-input agriculture: trends, goals, and prospects for input use.
Daberkow, S.G.; Reichelderfer, K.H.
Ames, Iowa : American Agricultural Economics Association; 1988 Dec.
American journal of agricultural economics v. 70 (5): p. 1159-1166; 1988 Dec. Includes references.

Language: English

Descriptors: U.S.A.; Farm inputs; Alternative farming; Trends; Goals; Agricultural chemicals; Health hazards; Groundwater pollution; Profitability; Agricultural production; Motivation; Regulations; Technical progress; Income tax; Research; Educational programs; Extension activities

108 **NAL Call No: 1 AG84PRO**
Managed forests and clean water.
Washington, D.C. : The Department; 1989 Jun.
Program aid - U.S. Department of Agriculture (1429): 8 p. ill; 1989 Jun.

Language: English

Descriptors: Water pollution; Forest management; Integrated systems; Erosion control

109 **NAL Call No: 292.9 AM34**
Management and policy effects on potential

groundwater contamination from dairy waste.
Heatwole, C.D.; Diebel, P.L.; Halstead, J.M.
Minneapolis, Minn. : American Water Resources Association; 1990 Feb.
Water resources bulletin v. 26 (1): p. 25-34. ill; 1990 Feb. Includes references.

Language: English

Descriptors: Dairy wastes; Groundwater pollution; Water composition and quality; Animal wastes

110 **NAL Call No: QH76.5.C48P76**
Management of agricultural drainage water for water quality.
Gilliam, J.W.
Washington, D.C. : Environmental Law Institute; 1985.
Proceedings of the conference--wetlands of the Chesapeake / edited by Hazel A. Groman ... [et al.] ; sponsored by the Waterfowl Festival, Inc., U.S. Environmental Protection Agency, and the William Bingham Foundation. p. 208-215; 1985. Meeting held April 9-11, 1985 in Easton, Maryland. Includes references.

Language: English

Descriptors: North Carolina; Drainage water; Drainage systems; Fertilizers; Pollution by agriculture; Water composition and quality

111 **NAL Call No: GB1016.N32 1983**
Management of ground water quality beneath irrigated arid lands.
Schmidt, K.D.
Worthington, Ohio : The Association; 1984.
Proceedings of the NWWA Western Regional Conference on Ground Water Management : held October 23-26, 1983, Town and Country Hotel, San Diego, California / sponsored by Natl Water Well Assoc ; ed by D.M. Nielsen & L. Aller. p. 77-84. maps; 1984. Includes references.

Language: English

Descriptors: California; Arizona; Groundwater pollution; Water composition and quality; Irrigation; Arid lands; Water management; Dbcp

112 **NAL Call No: GC97.N3 1985**
Management of nonpoint sources of pollution in coastal areas.
Kerns, W.R.
Baltimore, Md. : National Aquarium Baltimore; 1985.
The Chesapeake : prologue to the future : proceedings from the Chesapeake Bay Symposium / Valerie Chase, editor; Sue Gammisch, conference coordinator. p. 63-66; 1985.

Language: English

Descriptors: Virginia; Coastal areas; Water pollution; Federal government; State government; Environmental protection; Law enforcement; Water resource management

113 **NAL Call No: 56.8 J822**
Management of nonpoint-source pollution: What priority?
Thomas, L.M.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 8; 1985 Jan.

Language: English

Descriptors: U.S.A.; Environmental pollution; Government; Environmental policy; Water composition and quality; Water management

114 **NAL Call No: TD223.P39**
Management practices to reduce farm chemical losses with agricultural drainage.
Baker, J.L.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 467-470; 1985. Includes references.

Language: English

Descriptors: North central states of U.S.A.; Western states of U.S.A.; Pesticides; Agricultural chemicals; Loss prevention; Runoff water; Runoff control; Erosion control; Drainage; Cultivation methods

115 **NAL Call No: GB1016.N32 1983**
Management practices to reduce nitrate leaching with irrigated corn.
Schepers, J.S.; Martin, D.L.
Worthington, Ohio : The Association; 1984.
Proceedings of the NWWA Western Regional Conference on Ground Water Management : held October 23-26, 1983, Town and Country Hotel, San Diego, California / sponsored by Natl Water Well Assoc ; ed by D.M. Nielsen & L. Aller. p. 85-91; 1984. Includes references.

Language: English

Descriptors: Zea mays; Nitrate nitrogen; Leaching; Groundwater pollution; Irrigation; Scheduling; Nitrogen fertilizers

116 **NAL Call No: TD427.N5M3**
Management systems to reduce impact of nitrates.
Germon, J. C.; Dupain, S.
London ; New York : Elsevier Applied Science; 1989.
viii, 274 p. : ill. ; 25 cm. Includes bibliographical references.

Language: English

Descriptors: Nitrates--Environmental aspects; Animal waste--Environmental aspects; Agricultural pollution--Environmental aspects; Soil management; Water--Pollution

117 **NAL Call No: TD224.I8G7**
Managing agricultural chemicals.
Connelly, K.A.
Iowa? : Soil Conservation Society of America, [1986?]; 1986.
Groundwater quality in Northeast Iowa : the proceedings of a conference held October 16 & 17, 1984, Luther College, Decorah, Iowa. p. 68-72; 1986.

Language: English

Descriptors: Iowa; Groundwater pollution; Agricultural chemicals; Manures; Pesticides; Pesticide residues; Prevention; Guidelines

118 **NAL Call No: 1 AG84Y**
Managing and protecting forest water resources.
Nichols, D.S.
Washington, D.C. : U.S. Department of Agriculture; 1986.
The Yearbook of agriculture. p. 236-242. ill; 1986.

Language: English

Descriptors: U.S.A.; Forest resources; Water resources; Water resource management; Water conservation; Sedimentation; Pesticides; Acid rain

119 **NAL Call No: FICHE S-72**
Managing animal wastes for water quality.
Philips, R.L.; White, R.K.
St. Joseph, Mich. : The Society; 1981.
Paper - American Society of Agricultural Engineers (Microfiche collection) (fiche no. 81-2581): 1 microfiche : ill; 1981. Paper presented at the 1981 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

120 **NAL Call No: A281.9 Ag8A no.583**
Managing farm nutrients tradeoffs for surface and ground-water quality.
Crowder, Bradley M.; Young, C. Edwin
United States, Dept. of Agriculture, Economic Research Service
Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service; 1988
iv, 22 p. ; 28 cm. (Agricultural economic report ; no. 583). Cover title. "January 1988."--P. iii. Bibliography: p. 20-22.

Language: English

Descriptors: Soil conservation--United States; Agricultural chemicals--Environmental aspects--United States; Fertilizers--Environmental aspects--United States; Water, Underground--Pollution--United States

121 **NAL Call No: 290.9 AM32T**
Managing feedlot runoff with a settling basin plus tiled infiltration bed.
Edwards, W.M.; Owens, L.B.; White, R.K.; Fausey, N.R.
St. Joseph, Mich. : The Society; 1986 Jan.
Transactions of the ASAE - American Society of Agricultural Engineers v. 29 (1): p. 243-247; 1986 Jan. Includes references.

Language: English

Descriptors: Feedlot effluent; Steers; Beef; Runoff; Infiltration

122 **NAL Call No: aHN90.C6R78**
Managing groundwater contamination in rural areas.
Holmes, T.; Nielsen, E.; Lee, L.
Washington, D.C. : U.S. Department of Agriculture, Economic Research Service; 1988 Oct.
Rural development perspectives : RDP v. 5 (1): p. 35-40. ill., maps; 1988 Oct. Includes references.

Language: English

Descriptors: U.S.A.; Groundwater pollution; Rural areas; Pollution by agriculture; Agricultural chemicals; Regulations; Population distribution; State government; Environmental legislation; Federal government; Environmental policy

123 NAL Call No: HD1773.A2N6
Managing nutrient losses: some empirical results on the potential water quality effects.
Young, C.E.; Crowder, B.M.
Morgantown, W.Va. : The Northeastern Agricultural and Resource Economics Association; 1986 Oct.
Northeastern journal of agricultural and resource economics v. 15 (2): p. 130-136; 1986 Oct. Includes references.

Language: English

Descriptors: Pennsylvania; Zea mays; Medicago sativa; Forage; Dairy farming; Farm management; Fertilizer application; Animal manures; Nitrates; Groundwater pollution; Nutrient requirements; Simulation models; Computer simulation; Computer software; Linear models; Linear programming; Cost benefit analysis; Farm storage; Farm income; Returns; Program evaluation; Demonstration farms; Losses from soil systems

124 NAL Call No: 56.8 J822
Managing riparian ecosystems to control nonpoint pollution.
Lowrance, R.; Leonard, R.; Sheridan, J.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 87-91. ill., maps; 1985 Jan. Includes references.

Language: English

Descriptors: Georgia; Water pollution; Point source; Resource management; Ecosystems; Watersheds; Riparian forests

125 NAL Call No: QH540.J6
Managing runoff from a small, paved beef feedlot (Animal waste pollution).
Edwards, W.M.; JEVQA; Owens, L.B.; White, R.K.
Madison : American Society of Agronomy; Apr/June 1983.
Journal of environmental quality v. 12 (2): p. 281-286. ill; Apr/June 1983. Includes references.

Language: English

126 NAL Call No: TD427.P35M3
Managing the risks of pesticides what role for monitoring? : Wednesday, November 4, 1987, Lincoln Campus Center, Amherst, Massachusetts : a workshop for agencies and organizations involved in groundwater and drinking water monitoring for pesticides in the Northeast.
New England Interstate Water Pollution Control Commission, United States, Environmental Protection Agency
Pesticide Monitoring Conference 1987 : Lincoln Campus Center.
Boston, Mass.? : New England Interstate Water Pollution Control Commission?, 1987?; 1987.
1 v. (various foliations) : ill. ; 28 cm. Cover title. "Pesticide Monitoring Conference."--Leaf 3. Includes bibliographical references.

Language: English

Descriptors: Pesticides--Environmental aspects--Northeastern States--CongressEs; Water, Underground--Northeastern States--Quality--Congresses

127 NAL Call No: S604.E35
Manure management with conservation tillage.
Walter, M.F.; Richard, T.L.; Robillard, P.D.; Muck, R.
Chelsea, Mich. : Lewis Publishers; 1987.
Effects of conservation tillage on groundwater quality : nitrates and pesticides / edited by Terry J. Logan ... [et al.]. p. 253-270. maps; 1987. Includes references.

Language: English

Descriptors: Tillage; Manures; Soil and water conservation; Water composition and quality

128 NAL Call No: FICHE S-72
Maryland's livestock manure management program.
Brodie, H.L.
St. Joseph, Mich. : The Society; 1987.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 87-4047): 8 p. maps; 1987. Paper presented at the 1987 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-

0300 for information and prices.

Language: English

Descriptors: Maryland; Educational programs; Livestock; Manures; Waste disposal; Environmental pollution; Water composition and quality

129 **NAL Call No: TC401.A5**
Maryland's stormwater management program.
Kort, R.L.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 195-201; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Maryland; Runoff water; Water management; Programs; Legislation; Regulations; Erosion control; Sediment pollution

130 **NAL Call No: 292.9 AM34**
Measured and CREAMS-predicted nitrogen losses from tomato and corn management systems.
Sweeney, D.W.; Bottcher, A.B.; Campbell, K.L.; Graetz, D.A.
Minneapolis, Minn. : American Water Resources Association; 1985 Oct.
Water resources bulletin v. 21 (5): p. 867-873; 1985 Oct. Includes references.

Language: English

Descriptors: Zea mays; Lycopersicon esculentum; Pollution by agriculture; Cultivation methods; Irrigation systems; Nitrogen; Leaching; Runoff; Computer simulation; Models

131 **NAL Call No: TC423.W39 1985**
A methodology of assessing nonpoint source pollution from agricultural watersheds.
Lee, M.T.
New York, N.Y. : ASCE; 1985.
Watershed management in the eighties : proceedings of a symposium, Denver, Colorado, April 30-May 1, 1985 / edited by E. Bruce Jones and Timothy J. Ward. p. 191-198; 1985. Includes references.

Language: English

Descriptors: Illinois; Watersheds; Watershed management; Pollution by agriculture; Projects; Methodology

132 **NAL Call No: 57.8 SO4**
Minimizing N leaching in Platte River Valley.
Frank, K.; Mielke, L.N.; Schepers, J.S.
Peoria, Ill. : Solutions Magazine; 1985 Mar.
Solutions. p. 50-51, 53-54, 56, 58-60. ill; 1985 Mar. Includes references.

Language: English

Descriptors: Nebraska; Feedlots; Nitrogen fertilizers; Leaching; Groundwater; Water pollution; Irrigation water; Water management

133 **NAL Call No: 292.9 AM34**
Modeling cost-effectiveness of agricultural nonpoint pollution abatement programs on two Florida basins.
Heatwole, C.D.; Bottcher, A.B.; Baldwin, L.B.
Minneapolis, Minn. : American Water Resources Association; 1987 Feb.
Water resources bulletin v. 23 (1): p. 127-131. maps; 1987 Feb. Includes references.

Language: English

Descriptors: Florida; Pollution by agriculture; Nitrogen; Phosphorus; Control methods; Water composition and quality; Cost benefit analysis; Project appraisal; Water resource management; Models; Coastal areas

134 **NAL Call No: 290.9 AM32T**
Modeling dairy waste management systems' influence on coliform concentration in runoff.
Moore, J.A.; TAAEA; Grismer, M.E.; Crane, S.R.; Miner, J.R.
St. Joseph, Mich. : The Society; July/Aug 1983.
Transactions of the ASAE - American Society of Agricultural Engineers v. 26 (4): p. 1194-1200. ill; July/Aug 1983. Includes references.

Language: English

135 **NAL Call No: TC401.I53 1981E**
Modeling nonpoint pollution due to animal waste with ARM II (Agricultural Runoff Management).
Reddy, K.R.; Khaleel, R.; Overcash, M.R.
Littleton, Colo. : Water Resource Publications, 1982; 1982.
Modeling components of hydrologic cycle : proceedings, International Symposium on Rainfall Runoff Modeling, May 18-21, 1981, Mississippi State University / ed. V.P. Singh. p. 427-448. ill;

1982. Includes references.

Language: English

136 NAL Call No: FICHE S-72
Modeling organism movement in various livestock manure management systems.
Moore, J.A.; Smyth, J.D.; Baker, E.S.; Miller, J.R.
St. Joseph, Mich. : The Society; 1988.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 88-2051): 17 p. ill; 1988. Paper presented at the 1988 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Livestock; Manure spreading; Feces composition; Bacteria; Runoff water; Water pollution; Water composition and quality; Models

137 NAL Call No: TC823.P52
Modeling pesticide metabolite transport with GLEAMS.
Leonard, R.A.; Knisel, W.G.; Davis, F.M.; Johnson, A.W.
New York, N.Y. : The Society; 1988.
Planning now for irrigation and drainage in the 21st century : proc of a conference : Lincoln, Nebraska, July 18-21, 1988 / sponsored by the Irrig and Drain Div of the American Soc of Civil Engineers ; edited by D.R. Hay. p. 255-262; 1988. Includes references.

Language: English

Descriptors: Georgia; Pesticides; Metabolites; Pesticide persistence; Pesticide degradation products; Fenamiphos; Transport; Groundwater pollution; Simulation models

138 NAL Call No: TD420.A1P7
Modeling water quality and the effects of agricultural best management practices in the Iowa River Basin.
Bicknell, B.R.; Donigian, A.S. Jr; Barnwell, T.A.
Oxford : Pergamon Press; 1985.
Water science and technology v. 17 (6/7): p. 1141-1153. maps; 1985. Includes references.

Language: English

Descriptors: Iowa; River basins; Water composition and quality; Pollution by agriculture; Runoff; Simulation models; Hydrological models; Sediment pollution; Farm management; Pesticides; Nutrients

139 NAL Call No: TD420.A1P7
Monitoring effects of catchment management practices on phosphorus loads into the eutrophic Peel-Harvey estuary, Western Australia.
Birch, P.B.; Forbes, G.G.; Schofield, N.J.
Oxford : Pergamon Press; 1986.
Water science and technology v. 18 (4/5): p. 53-61. maps; 1986. Includes references.

Language: English

Descriptors: Western australia; Estuaries; Pollution by agriculture; Catchment planning; Phosphorus residual effect; Runoff water; Environmental pollution

140 NAL Call No: 292.9 AM34
Municipal point source and agricultural nonpoint source contributions to coastal eutrophication (Water quality management).
Duda, A.M.
Minneapolis, American Water Resources Association; June 1982.
Water resources bulletin v. 18 (3): p. 397-407; June 1982. 42 ref.

Language: English

141 NAL Call No: TD223.P39
A national perspective for livestock waste management.
Michieli, R.A.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 211-212; 1985. Includes references.

Language: English

Descriptors: U.S.A.; Animal wastes; Waste disposal; Water pollution; Erosion control

142 NAL Call No: 56.8 J822
A new nonpoint-source water pollution control

challenge.
Myers, C.F.
Ankeny, Iowa : Soil Conservation Society of America; 1987 Jul.
Journal of soil and water conservation v. 42 (4): p. 222; 1987 Jul.

Language: English

Descriptors: U.S.A.; Water pollution; Water policy; Law; Water composition and quality; Water management

143 **NAL Call No: SB610.W39**
New technological developments to reduce groundwater contamination by herbicides.
Schweizer, E.E.
Champaign, Ill. : The Society; 1988 Apr.
Weed technology : a journal of the Weed Science Society of America v. 2 (2): p. 223-227; 1988 Apr.
Paper presented at the "Annual Meeting of the Weed Science Society of America," February 4, 1987, St. Louis, Missouri. Includes references.

Language: English

Descriptors: Herbicide application; Groundwater pollution; Prevention; Weed control; Control methods; Technology

144 **NAL Call No: 381 AM33PA**
Nitrate leaching into shallow ground water in the Georgia coastal plain as affected by N management.
Hubbard, R.K.; Gascho, G.J.; Knisel, W.G.
Washington, D.C. : The Society; 1986.
Abstracts of papers - American Chemical Society (192nd): p. 273; 1986. Abstract only. Includes abstract.

Language: English

Descriptors: Georgia; Fertilizer application; Nitrates; Leaching; Groundwater; Water composition and quality

145 **NAL Call No: S601.D4 v.21**
Nitrogen management and ground water protection.
Follett, R. F.1939-
Amsterdam ; New York : Elsevier; 1989.
xv, 395 p. : ill. ; 25 cm. (Developments in agricultural and managed-forest ecology ; 21). Includes bibliographical references.

Language: English

Descriptors: Nitrogen fertilizers--Environmental aspects; Water, Underground--Pollution; Water quality management; Nitrogen in agriculture

146 **NAL Call No: 56.8 J822**
Nonpoint pollution control on public lands.
Van Haveren, B.P.; Janes, E.B.; Jackson, W.L.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 92-94. ill; 1985 Jan. Includes references.

Language: English

Descriptors: Montana; Colorado; Wyoming; New Mexico; Water pollution; Point source; Control; Resource management; Common lands; Programs; Land use

147 **NAL Call No: 56.8 J822**
Nonpoint pollution control: the Wisconsin experience.
Konrad, J.G.; Baumann, J.S.; Bergquist, S.E.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Jan.
Journal of soil and water conservation v. 40 (1): p. 55-61. ill., maps; 1985 Jan. Includes references.

Language: English

Descriptors: Wisconsin; Water pollution; Point source; Programs; Control; Pollution by agriculture; Costs; Watershed management

148 **NAL Call No: TC401.A5**
Nonpoint pollution policies and politics: the role of economic incentives.
Braden, J.B.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 57-65; 1988 Nov.
In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Pollution by agriculture; Water pollution; Environmental pollution; Control; Programs; Environmental policy; Incentives; Subsidies

149 **NAL Call No: SD388.S55**
Nonpoint source control guidance for silviculture.
Singer, J. Robert; Maloney, Ralph C.
United States, Environmental Protection Agency, Nonpoint Sources Branch
Washington, D.C. : U.S. Environmental Protection

Agency, Water Planning Division, Nonpoint Sources Branch; 1977.
1 v. (various pagings) : ill. ; 28 cm. March 1977.

Language: English

Descriptors: Forestry engineering--Environmental aspects; Forest management; Water--Pollution

150 **NAL Call No: TD423.E34**
Non-point source planning and implementation in Wisconsin.
Konrad, J.G.; Baumann, J.S.; Ott, J.A.
Chichester, England : Published for the Water Research Centre by E. Horwood; 1986.
Effects of land use on fresh waters : agriculture, forestry, mineral exploitation, urbanization / editor, J.F. de L.G. Solbe. p. 283-295. maps; 1986. (Ellis Horwood books in water and wastewater treatment). Includes references.

Language: English

Descriptors: Wisconsin; Water pollution; Runoff water; Sediments; Watersheds; Watershed management

151 **NAL Call No: TD223.P39**
Nonpoint source pollution: managing nutrients--a key to control.
Wolff, G.B.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 244; 1985.

Language: English

Descriptors: Pennsylvania; Water pollution; Control; Pollution by agriculture; Nutrients; Manures; Soil testing; Waste water treatment

152 **NAL Call No: TD223.P39**
Nonpoint source pollution of reservoirs: what the Tennessee Valley Authority is doing about it.
Clark, L.R.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 93-95; 1985. Includes references.

Language: English

Descriptors: Tennessee; Water reservoirs; Water pollution; Pollution by agriculture; Water management; Water composition and quality

153 **NAL Call No: TC401.A5**
Nonpoint source regulation: a watershed approach.
Davenport, T.E.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 117-121; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Illinois; Water pollution; Pollution by agriculture; Regulations; Legislation; Watershed management; Runoff water

154 **NAL Call No: 410 EC7**
Nutrient budgets for agricultural watersheds in the southeastern coastal plain.
Lowrance, R.R.; Leonard, R.A.; Asmussen, L.E.; Todd, R.L.
Tempe, Ariz : Ecological Society of America; 1985 Feb.
Ecology : a publication of the Ecological Society of America v. 66 (1): p. 287-296. ill., maps; 1985 Feb. Includes references.

Language: English

Descriptors: Georgia; Coastal plains; Watersheds; Riparian forests; Nutrient cycles; Cycling in ecosystems; Pollution by agriculture; Fertilizers; Water resource management; Stream flow; Runoff

155 **NAL Call No: GB991.A13N8**
Nutrient cycling in an agricultural watershed ecosystem a progress report (October 1, 1979-May 31, 1980) and work plan (June 1, 1980-September 30, 1981).
Todd, R. L.
University of Georgia, USDA-SEA Southeast Watershed Research Program
Washington, D.C. : The Foundation; 1980.
97 p. : ill. ; 28 cm. NSF Proposal no. DEB-7810841. Includes bibliographies.

Language: English

Descriptors: Watersheds--Environmental aspects--Southern States; Agricultural ecology--Southern

States; Watershed management--Southern States; Fertilizers--Southern States

156 NAL Call No: 56.8 J822
Nutrient management on dairy farms in southeastern Pennsylvania.
Young, C.E.; Crowder, B.M.; Shortle, J.S.; Alwang, J.R.
Ankeny, Iowa : Soil Conservation Society of America; 1985 Sep.
Journal of soil and water conservation v. 40 (5): p. 443-445; 1985 Sep. Includes 3 references.

Language: English

Descriptors: Pennsylvania; Agricultural land; Nutrients; Management; Dairy farming; Farmland; Water composition and quality; Soil conservation; Manures

157 NAL Call No: 1.98 AG84
Pastures need help for clean bill of health.
Mazzola, V.
Washington, D.C. : The Administration; 1989 Sep.
Agricultural research - U.S. Department of Agriculture, Agricultural Research Service v. 37 (9): p. 13; 1989 Sep.

Language: English

Descriptors: Ohio; Pastures; Pasture management; Oversowing; Winter; Nitrogen fertilizers; Groundwater pollution; Erosion

158 NAL Call No: 916762(AGE)
Perceptions, attitudes, and risk: overlooked variables in formulating public policy on soil conservation and water quality - discussion
Ervin, D.E.
Washington, D.C., The Service; Feb 1982.
ERS staff report - United States Dept. of Agriculture, Economic Research Service (AGES820129): p. 70-84; Feb 1982. Publication titled "Perceptions, attitudes and risk: overlooked variables in formulating public policy on soil conservation and water quality." Available from NTIS - order no. PB82-195-728. 11 ref.

Language: English

Descriptors: Farm operators; Attitudes; Risk; Soil conservation; Conservation practices; Nonpoint pollution

159 NAL Call No: TD172.J61
Pesticide contamination of ground water in the United States--a review.
Ritter, W.F.
New York, N.Y. : Marcel Dekker; 1990 Feb.
Journal of environmental science and health : Part B : Pesticides, food contaminants, and agricultural wastes v. 25 (1): p. 1-29; 1990 Feb. Literature review. Includes references.

Language: English

Descriptors: U.S.A.; Pollution by agriculture; Pesticides; Groundwater pollution; Mathematical models; Environmental protection; Integrated pest management

160 NAL Call No: TD196.P38E57 1987
Pesticides and pest management proceedings of the 16th ENR annual conference, November 12 and 13, 1987.
Cavanaugh, Deborah
Illinois, Dept. of Energy and Natural Resources, Illinois, Division of Energy and Environmental Affairs
ENR Conference 16th : 1987 : Chicago, Ill.
Springfield, Ill. : Illinois Dept. of Energy and Natural Resources, Energy and Environmental Affairs Division; 1988.
iv, 325 p. : ill., maps ; 28 cm. ILENR/RE-EA-88/04. Includes bibliographies.

Language: English

Descriptors: Pesticides--Environmental aspects--Congresses; Environmental policy--Illinois--Congresses; Water, Underground--Pollution--Illinois--Congresses

16[illegible]AL Call No: Document available from source.
Pesticides as potential pollutants.
DeWitt, Jerry; Jennings, Vivan M.; Mabry, Anne M.; Herman, J. Clayton.&XIowa agriculture and water quality
Document available from: Iowa State University, Publications Distribution, Printing & Publications Bldg., Ames, Iowa 50011; 1980.
3 p. : ill. (Part of a subject series.).

Language: English

Descriptors: Agronomy; Soils; Pesticides; Pest management; Water drainage; Pest control

Abstract: This publication examines Iowa's pesticide runoff problem. Topics include a discussion in the following areas: use of pesticides, characteristics of pesticides, practices for limiting pesticide losses, and integrated pest management.

162 NAL Call No: 100 M66 (1) no.135
Phosphorus and potassium experiments on well-managed soils in south-central Minnesota.
Overdahl, Curtis J.; Fenster, W. E.; Randall, G. W.
St. Paul : Agricultural Experiment Station, University of Minnesota; 1976.
19 p. : ill. ; 28 cm. (Miscellaneous report / University of Minnesota, Agricultural Experiment Station ; 135). Cover title. Includes tables.

Language: English

Descriptors: Corn--Minnesota--Fertilizers; Phosphatic fertilizers--Minnesota; Potassium fertilizers--Minnesota

163 NAL Call No: 290.9 AM3PS (EE)
Post-audit of lake model used for NPS (nonpoint pollution) management (Occoquan River Basin, Virginia).
Hartigan, J.P.; JOEEDU; Friedman, J.A.; Southerland, E.
New York : American Society of Civil Engineers, Environmental Engineering Division; Dec 1983.
Journal of Environmental Engineering v. 109 (6): p. 1354-1370. maps; Dec 1983. Includes references.

Language: English

Descriptors: Virginia; Rivers and Streams

164 NAL Call No: aHD1751.A47
Potential groundwater contamination from agricultural chemicals: a national perspective.
Nielsen, E.G.; Lee, L.K.
Washington, D.C. : The Service; 1987 Jan.
Situation and outlook report AR : agricultural resources - U.S. Department of Agriculture, Economic Research Service (5): p. 23-32. maps; 1987 Jan. In subseries: Inputs. Includes references.

Language: English

Descriptors: Groundwater pollution; Agricultural chemicals; Drinking water; Risks; Cost benefit analysis; Farm inputs

165 NAL Call No: TD223.G7
Poultry manure management and ground water quality: the Delaware solution.
Harris, J.R. Jr
Chelsea, MI : Lewis Publishers; 1987.
Ground water quality and agricultural practices / Deborah M. Fairchild, [editor]. p. 357-365; 1987. Includes references.

Language: English

Descriptors: Delaware; Poultry manure; Waste disposal; Programs; Application to land; Groundwater pollution; Water composition and quality

166 NAL Call No: Document available from source.
Principles of feedlot runoff control.
Butchbaker, A. F.; Paine, M. D.
Document available from: University of Nebraska-Lincoln, Dept. of Agricultural Communications, Lincoln, Nebraska 68583; 1975.
4 p. : ill. (Part of a subject series).

Language: English

Descriptors: Agricultural engineering; Structures; Livestock; Waste management; Manure handling; Runoff control; Feedlots

Abstract: This publication explains how feedlot runoff can be controlled by planning a system which includes diversion, drainage, debris basins, detention (holding) ponds, disposal.

167 NAL Call No: TC401.S7 1979
Problem analysis of non-point source pollution in the Blue Ridge physiographic province (Water quality control, Natural resources management, runoff, sedimentation, construction activities).
White, P.G.; West, J.
Asheville, N.C. (Box 2570, Asheville 28802) : Southeastern Forest Experiment Station, (1980?); 1980.
Proceedings streams workshop : November 13-14, 1979, Asheville, N.C. / SARRMC Team for Research Evaluation and Management of Streams. p. 95-103. ill., map; 1980. 9 ref.

Language: English

Descriptors: South Eastern States (USA); Rivers and Streams

168 NAL Call No: HD1755.A44
Problems of pesticide regulation: health and environment versus food and fiber.
Lichtenberg, E.; Zilberman, D.
Washington, D.C. : National Center for Food and Agric Policy, Resources for the Future; 1986.
Agriculture and the environment / Tim T. Phipps, Pierre R. Crosson, and Kent A. Price, editors. p. 123-145; 1986. Paper presented at a conference on "Agriculture and the Environment," April, 1986, Washington, D.C. Includes references.

Language: English

Descriptors: U.S.A.; Pesticides; Regulations; Health hazards; Agricultural policy; Environmental degradation; Groundwater pollution; Food contamination; Spray drift; Aerial spraying; Productivity; Economic impact; Technical progress; Cost benefit analysis; Integrated pest management; Environmental policy

169 NAL Call No: TC401.A5 no.88-4

Proceedings of the symposium on Nonpoint Pollution, 1988 policy, economy, management, and appropriate technology.

Novotny, Vladimir,1938-

American Water Resources Association

Bethesda, Md. : The Association; 1988.

ix, 314 p. : ill., maps ; 28 cm. (American Water Resources Association technical publication series ; TPS-88-4). Cover title: Nonpoint Pollution: 1988 - policy, economy, management, and appropriate technology. Includes bibliographies and index.

Language: English

Descriptors: Water--Pollution--Congresses; Water quality management--Congresses

170 NAL Call No: HD1694.V8L3

A proposal for a Chesapeake Bay trust fund.

Shabman, L.A.

Blacksburg, Va. : The Service; Feb 1984.

Land; issues and problems - Virginia Polytechnic Institute and State University, Cooperative Extension Service (64): 4 p.; Feb 1984. Includes 10 references.

Language: English

Descriptors: Land; Water pollution; Nitrogen; Phosphorus; Trusts; Water quality; Revenue

Abstract: Extract: This study describes the relative contribution of point-source and nonpoint-source pollutants to the current ambient levels of nitrogen, phosphorous, and selected toxics, and it suggests levels of pollution control for separate segments of the Bay.

171 NAL Call No: 82-0715D

PROPOSED GRAZING MANAGEMENT PROGRAM FOR THE PRICE RIVER RESOURCE AREA, CARBON AND EMERY COUNTIES, UTAH.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT PRICE, UTAH DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT SEPTEMBER 1982 (EPA: SEPTEMBER 7; 1982. 206 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: PRICE RIVER RESOURCE AREA; UTAH; BURNING (PRESCRIBED); EMPLOYMENT; GRAZING; HERBICIDES; IMPACT ASSESSMENT METHODOLOGY; LIVESTOCK; PLANT CONTROL; RANGE MANAGEMENT; RANGES; RECREATION RESOURCES; RECREATION RESOURCES MANAGEMENT; RESERVOIRS; VEGETATION; WATERSHEDS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--COMPLIANCE; PUBLIC RANGELANDS IMPROVEMENT ACT OF 1978--COMPLIANCE; TAYLOR GRAZING ACT OF 1934--COMPLIANCE

Abstract: (PUR)IMPLEMENTATION OF A GRAZING MANAGEMENT PLAN FOR 1.1 MILLION ACRES OF PUBLIC LAND WITHIN THE 1.7-MILLION-ACRE PRICE RIVER RESOURCE AREA IN SOUTHEASTERN UTAH IS PROPOSED. THE RESOURCE AREA, WHICH ENCOMPASSES 118 GRAZING ALLOTMENTS IN CARBON, EMERY, UTAH, UINTAH, AND DUCHESNE COUNTIES, CONTAINS 1.1 MILLION ACRES OF FEDERAL LAND, 185,949 ACRES OF STATE LAND, 448,837 ACRES OF PRIVATE LAND, AND 3,535 ACRES OCCUPIED BY A RESERVOIR AND WILDLIFE REFUGE LANDS. THREE ALTERNATIVE MANAGEMENT SCHEMES ARE UNDER CONSIDERATION. ALTERNATIVE 1 WOULD INVOLVE MAXIMIZATION OF THE PRODUCTION OF LIVESTOCK FORAGE ON PUBLIC LANDS ON A SUSTAINED-YIELD BASIS; ENHANCEMENT OF WATERSHED, WILDLIFE, AND OUTDOOR RECREATION RESOURCES WOULD BE SECONDARY TO LIVESTOCK PRODUCTION. CHANGES IN SEASON OF USE FOR LIVESTOCK WOULD BE IMPLEMENTED IN ALL CATEGORIES OF ALLOTMENTS TO FAVOR VEGETATIVE PRODUCTION. NO LIVESTOCK GRAZING RESTRICTIONS TO AVOID CONFLICTS WITH OTHER USES WOULD BE IMPLE-

MENTED, AND WILDLIFE INTRODUCTIONS WOULD BE ALLOWED ONLY IF THEY WOULD HAVE NO ADVERSE IMPACTS ON LIVESTOCK. ALLOTMENT BOUNDARY CHANGES WOULD BE IMPLEMENTED TO ALLOW FOR BETTER MANAGEMENT. ALTERNATIVE 2 WOULD PROVIDE FOR LIVESTOCK FORAGE ON A SUSTAINED-YIELD BASIS WITHOUT CAUSING UNDUE DEGRADATION OF OTHER RESOURCE VALUES. SEASON-OF-USE CHANGES WOULD BE IMPLEMENTED ON CATEGORY I ALLOTMENTS ONLY. WILDLIFE INTRODUCTIONS WOULD BE ALLOWED, AND ALLOTMENT BOUNDARY CHANGES WOULD BE THE SAME AS THOSE UNDER ALTERNATIVE 1. LIVESTOCK GRAZING RESTRICTIONS WOULD BE IMPLEMENTED TO AVOID OR MITIGATE CONFLICTS WITH WILDLIFE, WATERSHED, AND RECREATION RESOURCES. ALTERNATIVE 3 WOULD REDUCE OR MODIFY LIVESTOCK GRAZING TO ENHANCE WATERSHED VALUES, WILDLIFE PRODUCTIVITY, AND OUTDOOR RECREATION RESOURCES. SEASON-OF-USE AND ALLOTMENT BOUNDARY CHANGES WOULD BE THE SAME AS THOSE IN ALTERNATIVE 1. WILDLIFE INTRODUCTIONS WOULD BE ALLOWED, AND LIVESTOCK GRAZING RESTRICTIONS WOULD BE IMPLEMENTED. SPECIFIC FORAGE ALLOCATION LEVELS FOR EACH LIVESTOCK

172 NAL Call No: 282.9 G7992
Protecting water quality through changes in chemical use and management practices.
Abernathy, J.R.
Lincoln, Neb. : The Council; 1989.
Proceedings - Great Plains Agricultural Council. p. 104-105; 1989.

Language: English

Descriptors: U.S.A.; Groundwater pollution; Pollution by agriculture; Water composition and quality; Herbicides; Drinking water; Movement in soil; Herbicide residues; Festicide persistence

173 NAL Call No: GB1001.2.E27 1986
Protection of ground water from pesticides.
Corte-Real, L.
Dublin, OH : The Association, [1986?]; 1986.
Proceedings of the third annual Eastern Regional Ground Water Conference : July 28-30, 1986, Springfield, Massachusetts / Sponsors, National Water Well Association ... [et al.]. p. 221-233; 1986.

Language: English

Descriptors: Massachusetts; Groundwater pollution; Pesticides; Risks; Integrated pest management; Regulations; Registration; Usage; Environmental protection

174 NAL Call No: HD184.V8L3
Protection of public water supplies from nonpoint pollution - the state role and needed institutional modifications.
Cox, W.E.
Blacksburg, Va. : The Service; Jan 1980.
Land; issues and problems - Virginia Polytechnic Institute and State University, Cooperative Extension Service (49): 4 p.; Jan 1980. Includes 24 references.

Language: English

Descriptors: Public; Water supply; Pollution; Protection; Watershed; Land

Abstract: Extract: Because non-point pollution has an intimate relationship to land-use activities, effective control requires a combination of local and state regulatory mechanisms. This article reviews the existing state role in protecting public water supplies from non-point pollution and considers possible institutional modifications for achieving more effective protection.

175 NAL Call No: 407 G29W no.2235
Rainfall and runoff quantity and quality characteristics of four urban land-use catchments in Fresno, California, October 1981 to April 1983.
Oltmann, R. N.; Shulters, M. V.,1950-
Fresno Metropolitan Flood Control District, Geological Survey (U.S.)
Reston, Va.? : Dept. of the Interior, U.S. Geological Survey ; Denver, CO : For sale by the Books and Open-File Reports Section; 1989.
vi, 114 p. : ill. ; 28 cm. (U.S. Geological Survey water-supply paper ; 2335). Includes bibliographical references.

Language: English

Descriptors: Water quality management--California--Fresno Region; Watershed management--California--Fresno Region; Rain and rainfall--California--Fresno Region; Runoff--California--Fresno Region; Pesticides--

Environmental aspects--California--Fresno Region

176 NAL Call No: S625.I4S643
Rainwater management for utilization of alkali areas as grasslands.
Kamra, S.K.; Narayana, V.V.D.
Dehra Dun, India : Jugal Kishore; 1986.
Soil conservation in India / editors, R.K. Gupta & M.L. Khybri. p. 225-232; 1986. Includes references.

Language: English

Descriptors: Alkaline soils; Rain; Water management; Soil reclamation; Gypsum; Fertilizer application; Grasslands

177 NAL Call No: S599.6.M3N38 1986
Recent advances on soil and water management in Malaysian agriculture proceedings of the National Seminar on Recent Advances on Soil and Water Management in Malaysian Agriculture, held in Kuala Lumpur, 20 March 1986.
Huan, Lim Kim; Talib, Jamal
Malaysian Society of Soil Science
National Seminar on Recent Advances on Soil and Water Management in Malaysian Agriculture 1986 : Kuala Lumpur, Malaysia.
Kuala Lumpur, Malaysia : The Society; 1987.
xxi, 153 p. : ill., maps ; 29 cm. Cover title: National Seminar on Recent Advances on Soil and Water Management in Malaysian Agriculture. Includes bibliographies.

Language: English; Malayalam

Descriptors: Water-supply, Agricultural--Malaysia; Fertilizers--Malaysia--Congresses; Soils and nutrition--Malayia--Congresses

178 NAL Call No: TC401.A5
Reducing nitrogen pollution from crop production systems: a watershed perspective.
Norris, P.E.; Shabman, L.A.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 29-38; 1988 Nov.
In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Virginia; Water pollution; Nitrogen; Cropping systems; Pollution by agriculture; Control; Watershed management; Cost benefit analysis; Costs; Returns; Alternative farming

179 NAL Call No: TD223.P39
Regulating nonpoint sources of pollution from timber harvesting--a case history of the California experience.
Yee, C.S.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 397-401; 1985. Includes references.

Language: English

Descriptors: California; Forestry law and legislation; Regulations; Logging; Water pollution; Control; Watershed management

180 NAL Call No: 282.9 G7992
Relating pesticides management for water quality to health-based standards.
Hornsby, A.G.
Lincoln, Neb. : The Council; 1989.
Proceedings - Great Plains Agricultural Council. p. 98-103; 1989. Includes references.

Language: English

Descriptors: Western states of U.S.A.; North central states of U.S.A.; South central states of U.S.A.; Pesticides; Water composition and quality; Health protection; Groundwater pollution; Pollution by agriculture; Soil pollution; Drinking water

181 NAL Call No: 325.28 P56
Remote sensing and geographic information system techniques for aquatic resource evaluation.
Welch, R.; Remillard, M.M.; Slack, R.B.
Falls Church, Va. : American Society of Photogrammetry and Remote Sensing; 1988 Feb.
Photogrammetric engineering and remote sensing v. 54 (2): p. 177-185. ill., maps; 1988 Feb. Includes references.

Language: English

Descriptors: South Carolina; Remote sensing; Geography; Information services; Maps; Lakes; Aquatic plants; Vegetation; Aerial photography; Herbicide application; Water resources; Resource management

182 NAL Call No: 292.9 AM34
Reply to discussion by Ronald A. Chadderton

"Farmers' attitudes toward government involvement in preventing agricultural nonpoint source water pollution".
Lovejoy, S.B.
Minneapolis, Minn. : American Water Resources Association; Aug 1983.
Water resources bulletin v. 19 (4): 2 p.; Aug 1983.

Language: English

Descriptors: Water quality; Property rights; Pollution; Government

Abstract: Extract: Discussion of property rights assignment in water quality decisions. Also discusses the roles of government and the private sector in protecting the quality of our water.

183 NAL Call No: TC401.A5
A resource agency's perspective on nonpoint source management.
Harper, W.C.
Bethesda, Md. : The Association; 1987.
American Water Resources Association technical publication series TPS (87-2): p. 641-652; 1987. Paper presented at the "Symposium on Monitoring, Modeling, and Mediating Water Quality," May 1987. Includes references.

Language: English

Descriptors: U.S.A.; Water pollution; Water resource management; Point source; Water composition and quality; Standards; Legislation

184 NAL Call No: 100 OR3M
Response of coliform bacteria concentration to grazing management (Livestock grazing systems in relation to fecal contamination of rangelands, watersheds, runoff, non-point source pollution, stream monitoring, Oregon).
Buckhouse, J.C.; OASPA; Bohn, C.C.
Corvallis : The Station; June 1983.
Special report - Agricultural Experiment Station, Oregon State University (682): p. 1-7. ill; June 1983. 1983 Progress Report: Research in Rangeland Management. Includes references.

Language: English

Descriptors: Oregon; Watersheds; Rivers and Streams

185 NAL Call No: TC401.A5
Revenue sources for nonpoint source pollution abatement: an economic analysis.
Braden, J.B.; Farnsworth, R.L.; Mill, J.W.; Seitz, W.D.; Uchtmann, D.L.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 97-106; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Illinois; Erosion; Erosion control; Waterways; Water pollution; Pollution by agriculture; Economic analysis; Fees; Taxes

186 NAL Call No: KF27.A33277 1988b
Review of ground water quality concerns hearings before the Subcommittee on Department Operations, Research, and Foreign Agriculture of the Committee on Agriculture, House of Representatives, One Hundredth Congress, first and second sessions, October 12, 1987, Humboldt, IA; October 27 and December 9, 1987; March 29 and May 24, 1988.
United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture
Washington [D.C.] : U.S. G.P.O. : For sale by the Supt. of Docs., Congressional Sales Office, U.S. G.P.O.; 1989; Y 4.Ag 8/1:100-95.
v, 615 p. : ill., forms, maps ; 24 cm. Distributed to some depository libraries in microfiche. Serial no. 100-95. Includes bibliographies.

Language: English

Descriptors: Water, Underground--United States--Quality; Water, Underground--Pollution--United States; Water quality management--United States; Agricultural chemicals--Environmental aspects--United States

187 NAL Call No: 57.09 F41
Rinsate and stormwater management at retail fertilizer facilities.
Lang, S.B.
Baltimore, Md. : Fertilizer Industry Round Table; 1986.
Proceedings of the ... annual meeting - Fertilizer Industry Round Table (36th): p. 81-96. ill; 1986. Includes references.

Language: English

Descriptors: Fertilizer industry; Runoff water; Liquid fertilizers

188 NAL Call No: HC75.E5J6
Role of macrophytes in aquatic ecosystems and management of freshwater resources (Pollution, green manure, bioindicators of water quality, shelter and breeding places for aquatic fauna, source of substrate for periphyton growth).
Pandit, A.K.
London : Academic Press; Jan 1984.
Journal of environmental management v. 18 (1): p. 73-88; Jan 1984. Includes references.

Language: English

189 NAL Call No: Not available at NAL.
Runoff control systems.
Nye, John C.; Jones, Don D.
1976; 1976.
8 p. Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, W. Lafayette, Indiana 47907.

Language: English

Descriptors: Agricultural engineering; Waste management; Manure system; Livestock; Manure handling; Holding ponds; Runoff control

Abstract: The purpose of this publication is to help feedlot owners design settling basins and infiltration systems.

190 NAL Call No: TD428.A37A36 1983
Social and institutional factors affecting the adoption and maintenance of agricultural BMPs (Best Management Practices, nonpoint source water pollution and soil erosion).
Nowak, P.J.; Korsching, P.F.
Ames : Iowa State University Press, 1983; 1983.
Agricultural management and water quality / edited by F.W. Schaller, G.W. Bailey. p. 349-373; 1983. Includes references.

Language: English

191 NAL Call No: TC401.A5
Southeastern Minnesota cooperates to develop an innovative approach to nonpoint pollution.
Hunt, P.K.B.; Persons, A.C.; Lundberg, M.; Isberg, G.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 155-163; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: Minnesota; Water management; Water pollution; Pollution by agriculture; Control; Projects; Cooperation; Innovations

192 NAL Call No: 81-0875F
SOUTHERN RIO GRANDE PLANNING AREA, NEW MEXICO.
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT
LAS CRUCES, NEW MEXICO DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT SEPTEMBER 1981 (EPA: SEPTEMBER 18; 1981.
2 VOLUMES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: CULTURAL RESOURCES ASSESSMENTS; EROSION CONTROL; GRAZING; GRAZING SURVEYS; HERBICIDES; LIVESTOCK; PIPELINES; PLANT CONTROL; RANGE MANAGEMENT; RANGES; RECREATION RESOURCES; SEDIMENT CONTROL; SOILS SURVEYS; TANKS; VEGETATION; VEGETATION SURVEYS; VISUAL RESOURCES SURVEYS; WATER WELLS; WATERSHEDS; WILDLIFE; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--PROJECT AUTHORIZATION

Abstract: (PUR)IMPLEMENTATION OF A LIVESTOCK-GRAZING MANAGEMENT PROGRAM ON 2.1 MILLION ACRES OF PUBLIC LAND WITHIN THE 3.6-MILLION-ACRE SOUTHERN RIO GRANDE PLANNING AREA OF THE LAS CRUCES DISTRICT OF SOUTHWESTERN NEW MEXICO IS PROPOSED. THE PLANNING AREA INCLUDES PORTIONS OF DONA ANA, SIERRA, LUNA, SOCORRO, AND OTERO COUNTIES. INITIAL FORAGE ALLOCATIONS WOULD REDUCE ANNUAL FORAGE ALLOCATIONS FOR LIVESTOCK FROM 192,364 ANIMAL UNIT MONTHS

(AUMS) TO 165,500 AUMS AND FOR BIG GAME FROM 2,721 AUMS TO 1,766 AUMS. FORAGE ALLOCATIONS FOR THE YEAR 2000 WOULD BE 215,070 AUMS FOR LIVESTOCK AND 3,771 AUMS FOR BIG GAME. LIVESTOCK GRAZING WOULD BE AUTHORIZED ON ALL ALLOTMENTS NOW BEING GRAZED. OF THE 13 ALLOTMENTS UNDER MANAGEMENT PLANS, SEVEN WOULD CONTINUE TO BE UNDER DEFERRED ROTATION GRAZING SYSTEMS AND SIX UNDER REST ROTATION SYSTEMS. ON THE REMAINING 185 ALLOTMENTS, INTENSIVE MANAGEMENT PLANS WOULD BE IMPLEMENTED FOR 70 ALLOTMENTS (1.5 MILLION ACRES) AND LESS INTENSIVE MANAGEMENT FOR 115 ALLOTMENTS (265,655 ACRES). RANGE IMPROVEMENTS TO BE CONSTRUCTED OR INSTALLED TO SUPPORT THE MANAGEMENT PLAN WOULD INCLUDE 14 DIRT TANKS, 173 MILES OF PIPELINE, 177 DRINKING TROUGHS, 40 WELLS, 7 CATTLEGUARDS, 34 STORAGE TANKS, 1 SPRING, AND 256 MILES OF FENCING. VEGETATION MANIPULATION ACTIVITIES WOULD INCLUDE CHEMICAL TREATMENT FOR 29,772 ACRES OF MESQUITE AND 9,705 ACRES OF CREOSOTE AND MECHANICAL TREATMENT FOR 600 ACRES OF CHOLLA. (POS)THE PLAN WOULD DECREASE RANGELAND IN POOR ECOLOGICAL CONDITION BY 523,450 ACRES, INCREASE RANGELAND IN FAIR AND GOOD ECOLOGICAL CONDITION BY 353,987 ACRES AND 169,463 ACRES RESPECTIVELY, INCREASE AVERAGE PRODUCTION OF DESIRABLE AND INTERMEDIATE FORAGE SPECIES, REDUCE MESQUITE AND CREOSOTE SPECIES BY 40 PERCENT, REDUCE SEDIMENT YIELD FROM WATERSHEDS IN THE AREA BY AS MUCH AS 13 PERCENT, DECREASE WIND EROSION OVER THE LONG RANGE, DECREASE RUNOFF BY AS MUCH AS SIX PERCENT, AND INCREASE LIVESTOCK SALES IN THE LONG RUN. (NEG)SOILS WOULD BE DISTURBED ON 734 ACRES, INCLUDIN

193 **NAL Call No: aS622.S6**
Special projects support Bay cleanup.
Calhoun, G.R.
Washington, D.C. : The Service; 1987 Jun.
Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service v. 8 (3): p. 4-7. ill; 1987 Jun.

Language: English

Descriptors: Maryland; Pennsylvania; Virginia; Water pollution; Animal wastes; Fertilizers; Pollution by agriculture; Soil and water conservation; Watershed management

194 **NAL Call No: 292.9 AM34**
Spreadsheet watershed modeling for nonpoint-source pollution management in a Wisconsin basin.
Walker, J.F.; Pickard, S.A.; Sonzogni, W.C.
Minneapolis, Minn. : American Water Resources Association; 1989 Feb.
Water resources bulletin v. 25 (1): p. 139-147. ill., maps; 1989 Feb. Includes references.

Language: English

Descriptors: Wisconsin; Lakes; River basins; Watersheds; Hydrological models; Water pollution; Computer simulation; Simulation models

195 **NAL Call No: TD223.P39**
The status of silvicultural nonpoint source programs.
Ice, G.G.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 223-226. maps; 1985. Includes references.

Language: English

Descriptors: U.S.A.; Forest management; Water pollution; Environmental protection; Forest policy; Water composition and quality

196 **NAL Call No: FICHE S-72**
Stillage processing for water pollutant removal (Livestock manure management).
Sweeten, J.M.; Jenkins, J.W.; Etheredge, R.S.; Hall, K.A.; Gillepsie, T.R.
St. Joseph, Mich. : The Society; 1983.
Paper - American Society of Agricultural Engineers (Microfiche collection) (fiche no. 83-4066): 1 microfiche : ill; 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural En-

gineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

197 NAL Call No: aG4172.U6J5 1979 .U5 Map
Strategy for livestock waste management and streambank grazing control priority area, Upper Sugar River Watershed, Dane County, Wisconsin.
United States. Soil Conservation Service
Lincoln, Neb. : The Service; 1980.
1 map : col. ; 44 x 26 cm. 9-12-79. Source: 1974 aerial photography and information from SCS field personnel. Due to inherent aerial photographic displacement, the photographic image may vary from true ground location. Includes location map. 5,O-37,627.1.

Language: English

Descriptors: Animal waste--Environmental aspects--Wisconsin--Upper Sugar River Watershed--Maps; Grazing--Environmental aspects--Wisconsin--Upper Sugar River Watershed--Maps; Range management--Wisconsin--Wisconsin--Upper Sugar River Watershed--Maps

198 NAL Call No: S655.W5
Study of current and proposed practices in animal waste management.
Whetstone, George A.; Parker, Harry W.; Wells, Dan M.,1926-
United States, Environmental Protection Agency, Office of Air and Water Programs
Washington, D.C. : [U.S. Environmental Protection Agency] : for sale by the Supt. of Docs., U.S. Govt. Print. Off; 1974.
1 v. (various pagings) ; 28 cm. For the Office of Air and Water Programs, Environmental Protection Agency. January 1974. EPA 430/9-74-003. Bibliography: p. A-1 - A-362.

Language: English

Descriptors: Manure handling--Abstracts; Manure gases--Abstracts; Waste products as fuel--Abstracts; Animal waste--Abstracts; Farm manure

199 NAL Call No: FICHE 290.9 AM32P
Subsurface drained infiltration beds for feedlot runoff management.
Fausey, N.R.; Edwards, W.M.; Owens, L.B.; White, R.K.
St. Joseph, Mich. : The Society; 1985.
Paper - American Society of Agricultural Engineers (Microfiche collection) (fiche no. 85-2058): 10 p.; 1985. Paper presented at the 1985 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road.,

Language: English

Descriptors: Pollution by agriculture; Polluted water; Feedlot effluent; Subsurface drainage; Infiltration

200 NAL Call No: S631.3.S7 1972b
Summaries of papers : statewide conference on fertilization and waste management in relation to crop production and environmental problems, Riverside, California, December 18-19, 1972.
University of California (System), Division of Agricultural Sciences.
Statewide Conference on Fertilization and Waste Management in Relation to Crop Production and Environmental Problems 1972 Riverside, Calif.
Statewide Conference on Fertilization and Waste Management in Relation to Crop Production and Environmental Problems (1972 Riverside, Calif.
Davis Dept. of Agronomy and Range Science, University of California; 1972.
vi, 39 leaves : ill. ; 28 cm.

Language: English

Descriptors: Fertilizers and manures--Congresses; Agricultural wastes--Environmental aspects--Congresses

201 NAL Call No: TC401.S7 1979
Summary discussion: Pollution of streams from dispersed (non-point) sources in the Blue Ridge Mountains (Water quality management, Natural resources planning).
Cowling, E.B.
Asheville, N.C. (Box 2570, Asheville 28802) : Southeastern Forest Experiment Station, (1980?); 1980.
Proceedings streams workshop : November 13-14, 1979, Asheville, N.C. / SARRMC Team for Research Evaluation and Management of Streams. p. 113-117. ill; 1980.

Language: English

Descriptors: South Eastern States (USA); Mountain Areas; Rivers and Streams

202 NAL Call No: SF391.O52
Swine manure management.
Veenhuizen, M.A.
Wooster, Ohio : The Center; 1990 Jan.
Ohio swine research and industry report : Animal science series - Ohio Agricultural Research and Development Center (90-1): p. 40-43. ill; 1990 Jan. Includes references.

Language: English

Descriptors: Pigs; Manures; Management; Systems; Groundwater; Pollution; Air pollution; Odor abatement; Liquid manures; Storage; Biology; Treatment; Runoff control; Pasture management; Application methods; Application date

203 NAL Call No: S631.3.S9 1973
Symposium on Animal Waste Management USDA Southwestern Great Plains Research Center, Bushland, Texas, January 18, 1973.
Southwestern Great Plains Research Center (U.S.) Symposium on Animal Waste Management 1973 : Southwestern Great Plains Research Center.
Bushland, Tex. : The Center; 1973.
50 leaves : ill. ; 28 cm. Cover title. Includes bibliographies.

Language: English

Descriptors: Animal waste--Congresses; Farm manure--Congresses; Feedlot runoff--Congresses; Fertilizers--Congresses

204 NAL Call No: SF395.P62
Systems of runoff control (Swine waste management, basins, ponds).
Vanderholm, D.H.; Nye, J.C.
West Lafayette, Ind. : The Service, 1978/1984; 1978.
Pork industry handbook / Purdue University, Cooperative Extension Service. 6 p. ill; 1978. PIH-21, 1983?

Language: English

205 NAL Call No: FICHE S-72
Tillage and N-fertilizer management effects on groundwater quality.
Kanwar, R.S.; Baker, J.L.; Baker, D.G.
St. Joseph, Mich. : The Society; 1987.
American Society of Agricultural Engineers (Microfiche collection) (fiche no. 87-2077): 18 p.; 1987. Paper presented at the 1987 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

Descriptors: Groundwater pollution; Water composition and quality; Agricultural land; Tillage; Nitrogen fertilizers; Leaching

206 NAL Call No: 83-0167F
TURKEY-CLAY CREEK WATERSHED PLAN, SOUTH DAKOTA.
CLAY COUNTY CONSERVATION DISTRICT; HUTCHINSON CONSERVATION DISTRICT,TURKEY-CLAY CREEK WATERSHED DISTRICT,TURNER COUNTY CONSERVATION DISTRICT;YANKTON COUNTY CONSERVATION DISTRICT
HURON, SOUTH DAKOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JANUARY 1983 (EPA: FEBRUARY 2; 1983.
147 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: SOUTH DAKOTA; TURKEY-CLAY CREEK WATERSHED; DAMS; DRAINAGE; DREDGING; FARMLANDS; FISHERIES; FLOOD CONTROL; FORESTS; SEDIMENT CONTROL; WATERSHEDS; WATERWAYS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL WATER POLLUTION CONTROL ACT OF 1972--SECTION 404 PERMITS; UNIFORM RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION POLICIES ACT 4OF 1970--COMPLIANCE; WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954--PROJECT AUTHORIZATION

Abstract: (PUR)IMPLEMENTATION OF A WATERSHED PROTECTION AND FLOOD PREVENTION PROJECT WITHIN THE 252-SQUARE-MILE TURKEY-CLAY CREEK WATERSHED IN CLAY, HUTCHINSON, TURNER, AND YANKTON COUNTIES IN SOUTHEASTERN SOUTH DAKOTA IS PRO-

POSED. THE PROJECT WOULD INCLUDE MODIFICATION OF 10.2 MILES OF MAIN CHANNEL AND 55.3 MILES OF LATERALS, CONSTRUCTION OF 9 FLOODWATER-RETARDING DAMS, AND EXCAVATION OF 9 SEDIMENT BASINS. FLOODWATER RETARDING DAMS WOULD BE PLACED SO AS TO CONTROL RUNOFF FROM 116.5 SQUARE MILES OF LAND WITHIN THE WATERSHED. ALL STRUCTURES WOULD BE ROLLED EARTH EMBANKMENTS WITH HEIGHTS RANGING FROM 31 TO 56 FEET, AND EACH STRUCTURE WOULD HAVE AN EXPECTED DESIGN LIFE OF 100 YEARS. PRINCIPAL SPILLWAY INLETS WOULD BE REINFORCED CONCRETE. THE CAPACITY OF MODIFIED MAIN CHANNEL WOULD ALLOW REMOVAL OF THE ONE-YEAR FREQUENCY STORM RUNOFF WITHIN A 24-HOUR PERIOD. MITIGATION OF WILDLIFE LOSSES RESULTING FROM PROJECT ACTIVITIES WOULD INVOLVE ACQUISITION AND MANAGEMENT OF 126 ACRES OF HERBACEOUS AND 23 ACRES OF WOODY HABITAT. DEVELOPMENT ON THESE TRACTS WOULD INCLUDE THE ESTABLISHMENT OF 21 ACRES OF HERBACEOUS HABITAT AND 34 ACRES OF WOODY HABITAT. ESTIMATED COST OF THE PROJECT, WHICH WOULD BE IMPLEMENTED OVER A 10-YEAR PERIOD, IS $10.3 MILLION, AND THE BENEFIT-COST RATIO IS ESTIMATED AT 1.5. (POS)WITH PROJECT MEASURES IN PLACE, FLOOD DAMAGES WOULD BE REDUCED BY 72 PERCENT AND SEDIMENT LEAVING THE WATERSHED VIA THE VERMILLION RIVER WOULD BE REDUCED BY 50 PERCENT. SEDIMENT REDUCTION WOULD IMPROVE FISH AND WILDLIFE HABITAT AND REDUCE THE MAINTENANCE NEEDED FOR CHANNELS, LATERALS, BRIDGES, DITCHES, AND CULVERTS. AN ESTIMATED 17,800 ACRES SERVED BY THE LATERALS WOULD BENEFIT FROM INSTALLATION OF ON-FARM DRAINAGE STRUCTURES. APPROXIMATELY 560 ACRES OF PRIME FARMLAND WOULD BE ADDED TO THE WATERSHED AS A RESULT OF FLOOD REDUCTION AND IMPROVED DRAINAGE. WET SEDIMENT POOLS WOULD PROVIDE 88 SURFACE ACRES OF WATER AT 14 LOCATIONS. (NEG)INSTALLATION OF DAMS AND CHANNEL MODIFICATION WOULD RESULT IN A

207 NAL Call No: 82-0395F

UPPER YOCONA RIVER WATERSHED, LAFAYETTE, CALHOUN, AND PONTOTOC COUNTIES, MISSISSIPPI.

CALHOUN COUNTY SOIL AND WATER CONSERVATION DISTRICT; LAFAYETTE COUNTY SOIL AND WATER CONSERVATION DISTRICT,PONTOTOC COUNTY SOIL AND WATER CONSERVATION DISTRICT,UPPER YOCONA DRAINAGE DISTRICT,DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE

JACKSON, MISSISSIPPI DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE MARCH 1982 (EPA: APRIL 28; 1982. 2 VOLUMES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: MISSISSIPPI; UPPER YOCONA RIVER WATERSHED; YOCONA RIVER; BANK PROTECTION; BRIDGES; DIVERSION STRUCTURES; DRAINAGE; DREDGING; FARMLANDS; FISHERIES; FLOOD CONTROL; FORESTS; LAND MANAGEMENT; WATERSHEDS; WATERWAYS; WETLANDS; WILDLIFE MANAGEMENT; EXECUTIVE ORDER 11990--COMPLIANCE; FEDERAL WATER POLLUTION CONTROL ACT OF 1972--SECTION 404 PERMITS; WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954--PROJECT AUTHORIZATION

Abstract: (PUR)IMPLEMENTATION OF LAND-TREATMENT MEASURES, MODIFICATION OF 42.1 MILES OF CHANNEL, AND INSTALLATION OF WATER CONTROL STRUCTURES WITHIN THE 105,835-ACRE UPPER YOCONA RIVER WATERSHED IN LAFAYETTE, PONTOTOC, AND CALHOUN COUNTIES, MISSISSIPPI ARE PROPOSED. TECHNICAL ASSISTANCE WOULD BE PROVIDED TO AID LANDOWNERS IN IMPLEMENTATION OF REMAINING LAND-TREATMENT MEASURES, WHICH INCLUDE CONSERVATION CROPPING SYSTEMS, PASTURE PLANTING AND RENOVATION, DIVERSIONS, FARM PONDS,

GRASSED WATERWAYS, TREE PLANTING, AND WOODLAND MANAGEMENT. CHANNEL WORK WOULD CONSIST OF 41 MILES OF CHANNEL ENLARGEMENT OR REALIGNMENT AND 1.1 MILES OF CLEARANCE OF NATURAL CHANNEL. CHANNEL CLEARANCE OPERATIONS WOULD BE CONDUCTED ON THE EXTREME UPPER PORTIONS OF THE YOCONA RIVER AND TOCCOPOLA CREEK. NUMEROUS OXBOWS AND BENDS WOULD BE CUT OFF AS CHANNEL ENLARGEMENT OR REALIGNMENT WORK FOLLOWED THE GENERAL PATTERN OF FLOW. CLEARANCE ACTIVITIES WOULD CONSIST OF REMOVAL OF WOODY GROWTH, DEBRIS, AND DRIFTS FROM THE CHANNEL WATER FLOW AREA. CHANNEL WORK AND APPURTENANCES WOULD INCLUDE CHANNEL EXCAVATION AND CLEARANCE, PLACEMENT OF RIPRAP FOR GRADE CONTROL, INSTALLATION OF PIPE DROPS AND CONCRETE GRADE CONTROL STRUCTURES, INSTALLATION OF CANTILEVER OVERFALL PIPES, INSTALLATION OF WATER LEVEL CONTROL STRUCTURES, STREAMBANK STABILIZATION, AND EXCAVATION OF INLET CHANNELS. AN AREA OF APPROXIMATELY 25 ACRES LOCATED SOUTH OF YOCONA RIVER WOULD BE ESTABLISHED FOR USE AS A WILDLIFE HABITAT AREA DURING THE WINTER SEASON, AND NUMEROUS OTHER MITIGATION FEATURES WOULD BE INCORPORATED INTO THE PLAN. A BRIDGE OVER POTLOCKNEY CREEK AT THE LOWER COUNTY ROAD CROSSING WOULD BE ALTERED. ESTIMATED COST OF THE PROJECT IS $17.3 MILLION. (POS)LAND-TREATMENT MEASURES WOULD IMPROVE HYDROLOGIC CONDITIONS, REDUCE RUNOFF, PREVENT EROSION, PROVIDE OUTLETS FOR ON-FARM DRAINS, AND ENHANCE THE AESTHETIC VALUES OF THE WATERSHED. COMPLETION OF THE PROJECT WOULD REDUCE FLOODWATER DAMAGES ON 13,567 ACRES BY 66 PERCENT AND IMPROVE RUNOFF ON 13,

208 **NAL Call No: TD223.P39**
U.S. Department of Agriculture's perspective on silvicultural nonpoint source water quality.
Beasley, J.L.; Harper, W.C.
Washington, D.C. : U.S. Environ Protection Agency, Office of Water Regul and Standards; 1985.
Perspectives on nonpoint source pollution : proceedings of a national conference, Kansas City, Missouri, May 19-22, 1985. p. 321-324; 1985.

Language: English

Descriptors: U.S.A.; Silviculture; Forest services; Usda; Water composition and quality; Water resource management

209 **NAL Call No: TD420.N32 1982**
Use of agricultural BMPs to control ground-water nitrogen.
Schepers, J.S.
Worthington, Ohio : National Water Well Association; 1983.
State, county, regional and municipal jurisdiction of ground-water protection : proceedings of the Sixth National Ground-Water Quality Symposium, September 22-24, 1982, Atlanta, Georgia. p. 85-88; 1983.

Language: English

Descriptors: Nebraska; Groundwater pollution; Pollution by agriculture; Nitrogen fertilizers; Environmental protection; Water composition and quality; Wells; Surveys

210 **NAL Call No: AY-240**
Use of sewage sludge in crop production.
Sommers, Lee E.; Nelson, Darrell W.; Spies, Clifford D.&XEnergy management in agriculture 1980; 1980.
12 p. (Part of a subject series). Document available from: Mailing Room, Ag. Administration Bldg., Purdue University, West Lafayette, IN 47907.

Language: English

Descriptors: Agronomy; Fertility; Fertilizers; Application rates; Sludge analysis; Recommendations

Abstract: This publication looks at what sewage sludge is, the potential benefits of sludge as a fertilizer and disadvantages, plus determining the sludge application rates to meet nutrient requirements. Additional factors affecting sludge application rates such as PCB limitation, disease considerations, and site considerations are mentioned. Fertilizer recommendation tables included.

211 **NAL Call No: TD420.A1P7**
The use of water quality models in management

decision making (Mathematical models, pesticides).
Barnwell, T.O. Jr; PGWTA; Krenkel, P.A.
Oxford : Pergamon Press; 1982.
Water science and technology v 14 (9/11): p. 1095-1107. ill., maps; 1982. Includes references.

Language: English

212 NAL Call No: TD420.W36
The use of water quality models in management decision making (Pesticides, hazardous wastes).
Barnwell, T.O. Jr; WPOCA; Krenkel, P.A.
Oxford : Pergamon Press; 1982.
Water science and technology v. 14 (9/11): p. 1095-1107. maps; 1982. 2 p. ref.

Language: English

Descriptors: USA

213 NAL Call No: QH540.J6
Using CREAMS and economic modeling to evaluate conservation practices: an application.
Crowder, B.M.; Pionke, H.B.; Epp, D.J.; Young, C.E.
Madison, Wis. : American Society of Agronomy; 1985 Jul.
Journal of environmental quality v. 14 (3): p. 428-434. ill; 1985 Jul. Includes references.

Language: English

Descriptors: Pennsylvania; Agricultural land; Erosion; Soil conservation; Pesticides; Chemical control; Runoff; Economic analysis; Simulation models

214 NAL Call No: S95.E2
Using models to identify cost-effective pest management programs that minimize ground-water pollution.
Shoemaker, C.; Kanellopoulou, S.; Naranjo, S.; Cheng, M.Y.; Tingey, W.M.
Ithaca, N.Y. : New York Agric. Exp. Stations and New York State College of Agric. & Life Sciences; 1988.
New York's food and life sciences quarterly v. 18 (1/2): p. 5-8; 1988.

Language: English

Descriptors: New York; Groundwater; Pollution; Pesticide residues; Integrated pest management; Simulation models

215 NAL Call No: QH541.5.F6F67
Vegetation management and water.
Knopp, C.
S.l. : s.n. :.; 1982.
Proceedings ... annual Forest Vegetation Management Conference (4th): p. 11-15; 1982. Paper presented at the "4th Annual Forest Vegetation Management Conference," Nov 3-4, 1982, Eureka, California.

Language: English

Descriptors: Water resources; Water composition and quality; Vegetation management; Erosion control; Herbicides

216 NAL Call No: aSD11.A352
Vegetation management in water impoundments: alternatives and supplements to water-level control.
Linde, A.F.
St. Paul, Minn. : The Station; 1985.
USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station (100): p. 51-60; 1985. Paper presented at the "Workshop on Water Impoundments for Wildlife: A Habitat Management Workshop," August 31/September 1-2, 1982, Bemidji, Minnesota. Includes references.

Language: English

Descriptors: Wetlands; Water impoundment; Vegetation management; Prescribed burning; Herbicides; Mowing; Farming systems; Wildlife; Habitat improvement

217 NAL Call No: 79.9 SO8
Vegetation management problems and solutions: Lake States.
Sajdak, R.L.; Kotar, J.
Champaign : The Society; 1985.
Proceedings - Southern Weed Science Society v. 38: p. 327-336; 1985. Paper presented at the 38th Annual Meeting of the Southern Weed Science Society, "Challenges in Food Production" Jan. 14/16, 1985, Houston, Texas. Includes 14 references.

Language: English

Descriptors: Pinus resinosa; Pinus banksiana; Vegetation management; Productivity; Forest plantations; Herbicides; Application methods; Site classification

218 NAL Call No: 281.9 C81A
Views of Soil and Water Conservation District

directors regarding development and implementation of farm conservation plans and implications for water quality management planning in New York State.
Hexem, R.W.; Trerise, S.M.; West, S.F.; Robillard, P.D.
Ithaca, N.Y., The Station; Jan 1979.
A.E. Res. - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station (79-3): 82 p.; Jan 1979. Includes ref.

Language: English

Descriptors: New York; USA; Soil conservation; Water conservation; Water quality; Water management; Water pollution; Nonpoint pollution

219 **NAL Call No: TC401.A5**
Water quality and the conservation reserve program: implications of targeting saline croplands.
Aillery, M.P.
Bethesda, Md. : The Association; 1988 Nov.
American Water Resources Association technical publication series TPS (88-4): p. 261-270. maps; 1988 Nov. In the series analytic: Nonpoint pollution: 1988--policy, economy, management, and appropriate technology / edited by V. Novotny. Includes references.

Language: English

Descriptors: U.S.A.; Water conservation; Programs; Water composition and quality; Salinity; Irrigation; Water management; Pastures

220 **NAL Call No: ArUKF3790.A2W87 1988**
Water quality control integrating beneficial use and environmental protection : ninth annual summer program, June 1-3, 1988, University of Colorado Events Center, Boulder, Colorado.
University of Colorado, Boulder, Natural Resources Law Center
Boulder, Colo. : The Center; 1988.
1 v. (various pagings) : ill. ; 30 cm. + 10 sound cassettes.

Language: English

Descriptors: Water--Law and legislation--United States--Congresses; Water quality management--United States--Congresses; Water--Pollution--Law and legislation--Congresses

221 **NAL Call No: 6 AR44**
Water quality, pesticides important issues in upcoming legislative session.
Tempe, Ariz. : Arizona Farmer-Stockman; 1986 Jan.
Arizona farmer-stockman v. 65 (1): p. 6-8; 1986 Jan.

Language: English

Descriptors: Arizona; Water composition and quality; Pesticides; Water use; Legislation; Water resource management; Arid Zones

222 **NAL Call No: FICHE S-72**
Water quality/quantity challenges (Animal waste management, water management).
Humenik, F.J.; Skaggs, R.W.
St. Joseph, Mich. : The Society; 1982.
Paper - American Society of Agricultural Engineers (Microfiche collection) (fiche no. 82-4032): 1 microfiche : ill; 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. Includes references.

Language: English

223 **NAL Call No: 83-0437D**
WATERSHED PLAN FOR ENGLISH COULEE WATERSHED, GRAND FORKS COUNTY, NORTH DAKOTA.
CITY OF GRAND FORKS, NORTH DAKOTA; EASTERN GRAND FORKS COUNTY SOIL CONSERVATION DISTRICT,GRAND FORKS COUNTY WATER RESOURCE DISTRICT,WESTERN GRAND FORKS COUNTY SOIL CONSERVATION DISTRICT,DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE
BISMARCK, NORTH DAKOTA DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE JANUARY 1983 (EPA: JUNE 23; 1983.
113 PAGES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: COST ASSESSMENTS; DAMS; DIVERSION STRUCTURES; EROSION CON-

TROL; FARMLANDS; FLOOD CONTROL; FLOODWAYS; GRAZING; LAND MANAGEMENT; LIVESTOCK; RANGE MANAGEMENT; RANGES; RESERVOIRS; SEDIMENT CONTROL; WATER STORAGE; WATERSHEDS; WATERWAYS; WETLANDS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL WATER POLLUTION CONTROL ACT OF 1972--SECTION 404 PERMITS; WATERSHED PROTECTION AND FLOOD PREVENTION ACT OF 1954--PROJECT AUTHORIZATION

Abstract: (PUR)IMPLEMENTATION OF A FLOOD CONTROL AND LAND TREATMENT PLAN FOR THE 73,664-ACRE ENGLISH COULEE WATERSHED IN GRAND FORKS COUNTY OF EASTERN NORTH DAKOTA IS PROPOSED. THE PREFERRED PLAN WOULD INVOLVE PROVISION OF ACCELERATED TECHNICAL ASSISTANCE IN INSTALLATION OF RESOURCE MANAGEMENT SYSTEMS ON 14,260 ACRES OF CROPLAND AND 1,760 ACRES OF RANGE, PASTURE, AND HAYLAND; CONSTRUCTION OF A ROLLED EARTHFILL DAM WITH RESERVOIR STORAGE RESERVED FOR SEDIMENT AND FLOODWATER; CONSTRUCTION OF A DIVERSION STRUCTURE TO CONVEY OUTFLOWS FROM THE FLOODWATER-RETARDING DAM AND THE RUNOFF FROM 8.7 MILES OF UNCONTROLLED DRAINAGE AREA; AND DEVELOPMENT OF THREE MILES OF FLOODWAY TO JOIN TWO EXISTING FLOODWAYS THAT HAVE A COMBINED LENGTH OF 10.5 MILES. LAND TREATMENT ACTIONS WOULD INCLUDE CONSERVATION CROPPING SYSTEMS ON 14,260 ACRES, 139,500 LINEAR FEET OF FIELD WINDBREAKS, CONSERVATION TILLAGE SYSTEMS ON 8,130 ACRES, PERMANENT HAYLAND PLANTING ON 440 ACRES, PLANTING OF GRASSES AND LEGUMES IN ROTATION ON 560 ACRES, CROP RESIDUE USE ON 14,260 ACRES, 900 LINEAR FEET OF DIVERSIONS, PLANTING OF GRASSES ON 9 ACRES WITHIN WATERWAYS, ENFORCEMENT OF PROPER GRAZING USE ON 1,430 ACRES OF GRASSLAND, PASTURE AND HAYLAND MANAGEMENT PRACTICES ON 160 ACRES, RANGE RESEEDING ON 80 ACRES, 9 LIVESTOCK WATERING PONDS, 22,500 LINEAR FEET OF CROSS FENCING, WILDLIFE MANAGEMENT ON 190 ACRES OF WETLAND, AND WILDLIFE MANAGEMENT PRACTICES ON 360 ACRES OF UPLAND. THE FLOODWATER-RETARDING STRUCTURE, WHICH WOULD CONTROL DRAINAGE ON 57.1 SQUARE MILES (OR NEARLY 50 PERCENT) OF THE WATERSHED, WOULD EXTEND 6.5 MILES AND HAVE AN AVERAGE HEIGHT OF 8 FEET; THE STRUCTURE WOULD REQUIRE 500,000 CUBIC YARDS OF FILL. THE FLOODWAY WOULD COMPLETE A 13.5-MILE SYSTEM THAT WOULD CONVEY DIVERTED WATER TO THE RED RIVER OF THE NORTH. COST OF STRUCTURAL MEASURES IS ESTIMATED AT $3.5 MILLION, AND TECHNICAL ASSISTANCE COSTS ARE ESTIMATED AT $34,000. ESTIMATED BENEFIT-COST RATIO FOR THE PROJECT IS 1.13. (POS)BOTH URBAN AND RURAL PROPERTIES WI

224 **NAL Call No: 275.29 F66C**

Weed control in aquaculture and farm ponds.

Thayer, D.D.; Haller, W.T.; Joyce, J.C.

Gainesville, Fla. : The Service; 1988.

Circular - Florida Cooperative Extension Service (707): 24 p. ill., maps; 1988. Includes references.

Language: English

Descriptors: Florida; Fish ponds; Weed control; Integrated pest management; Herbicide recommendations; Lake restoration; Aquatic weeds; Taxonomy

225 **NAL Call No: 82-0708F**

WEST SOCORRO RANGELAND MANAGEMENT PROGRAM, NEW MEXICO.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SOCORRO, NEW MEXICO DEPARTMENT OF THE INTERIOR, BUREAU OF LAND MANAGEMENT SEPTEMBER 1982 (EPA: SEPTEMBER 3; 1982.

2 VOLUMES. USDA EMPLOYEES REQUEST DOCUMENTS FROM NATIONAL AGRICULTURAL LIBRARY OTHERS ORDER FROM INFORMATION RESOURCES PRESS, 1700 NORTH MOORE STREET, SUITE 70 0, ARLINGTON, VA 22209.

Language: English

Descriptors: BURNING (PRESCRIBED); CULTURAL RESOURCES ASSESSMENTS; EROSION CONTROL; HERBICIDES; LAND MANAGEMENT; LIVESTOCK; PLANT CON-

TROL; PIPELINES; RANGE MANAGEMENT; RANGES; RECREATION RESOURCES SURVEYS; SEDIMENT CONTROL; SOCIOECONOMIC ASSESSMENTS; SOILS SURVEYS; VEGETATION; VEGETATION SURVEYS; WATER RESOURCES SURVEYS; WATER WELLS; WILDLIFE; WILDLIFE MANAGEMENT; FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976--COMPLIANCE

Abstract: (PUR)IMPLEMENTATION OF A RANGELAND MANAGEMENT PROGRAM FOR 986,092 ACRES OF PUBLIC LAND WITHIN THE 6.0-MILLION-ACRE DIVIDE PLANNING AREA OF THE SAN AUGUSTINE RESOURCE AREA OF WEST-CENTRAL NEW MEXICO IS PROPOSED. THE AREA CONTAINS 187 GRAZING ALLOTMENTS. ALL ALLOTMENTS WERE EVALUATED AND ASSIGNED AN AVERAGE ALLOTMENT RANGE CONDITION. EACH ALLOTMENT WAS THEN PLACED WITHIN ONE OF SIX MANAGEMENT CATEGORIES, DEPENDING ON RANGE CONDITION AND ACREAGE OF PUBLIC LAND WITHIN THE ALLOTMENT. EACH OF THE CATEGORIES POSSESSES INHERENT MANAGEMENT ACTIONS BASED ON LIVESTOCK GRAZING AND MANAGEMENT PRINCIPLES; THESE INCLUDE SEASON-OF-USE, DISTRIBUTION OF DOMESTIC LIVESTOCK, KIND AND CLASS OF LIVESTOCK, AND NUMBERS OF LIVESTOCK. BASED ON THE MANAGEMENT CATEGORY IN WHICH AN ALLOTMENT HAS BEEN PLACED, THE PREFERRED PLAN WOULD IMPLEMENT, AT A MINIMUM, THOSE REQUIRED MANAGEMENT ACTIONS AND, POSSIBLY, OPTIONAL MANAGEMENT ACTIONS ON ALL 187 GRAZING ALLOTMENTS. IMPLEMENTATION OF MANAGEMENT ACTIONS BY ALLOTMENT MANAGEMENT CATEGORY WOULD BE CONDUCTED IN CONJUNCTION WITH CAREFUL AND CONSIDERED CONSULTATION, COOPERATION, AND COORDINATION WITH LESSEES, PERMITTEES, AND LANDOWNERS. MINIMUM RANGELAND IMPROVEMENTS TO BE CONSTRUCTED OR INSTALLED IN CONJUNCTION WITH THE PLAN WOULD INCLUDE 47 MILES OF FENCE, 65 MILES OF PIPELINE, 10 WELLS, AND 27 PIT TANKS. VEGETATIVE LAND TREATMENTS WOULD BE CONDUCTED ON A MAXIMUM OF 353,320 ACRES OF PUBLIC LAND; THESE TREATMENTS WOULD INCLUDE MECHANICAL MANIPULATION, HERBICIDE APPLICATION, AND PRESCRIBED USE OF FIRE TO CONTROL PINYON-JUNIPER AND RABBITBRUSH ENCROACHMENT ON A MAXIMUM OF 299,560 ACRES; USE OF PITTING, CONTOUR RIPPING, AND CONTOUR FURROWING ON A MAXIMUM OF 17,280 ACRES; AND USE OF SEEDING OR INTERSEEDING ON 36,480 ACRES. MONITORING PROGRAMS WOULD BE INSTITUTED TO DETERMINE THE EFFECTIVENESS OF MANAGEMENT ACTIONS IN IMPROVING THE STATUS OF THE AREA FOR LIVESTOCK AND WILDLIFE. (POS)SEDIMENT YIELDS WOULD BE REDUCED BY APPROXIMATELY EIGHT PERCENT OVER THE LON

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WESTERN OREGON PROGRAM FOR THE MANAGEMENT OF COMPETING VEGETATION.

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Abstract: (PUR)IMPLEMENTATION OF A PROGRAM TO CONTROL VEGETATION THAT COMPETES WITH COMMERCIALLY EXPLOITABLE FOREST SPECIES WITHIN FIVE BUREAU OF LAND MANAGEMENT (BLM) DISTRICTS IN WESTERN OREGON IS

PROPOSED. DISTRICTS THAT WOULD BE AFFECTED BY THE PROGRAM INCLUDE THE SALEM, EUGENE, COOS BAY, ROSEBURG, AND MEDFORD DISTRICTS. THE AREAS ENCOMPASS THE ENTIRETY OF WESTERN OREGON FROM WASHINGTON TO CALIFORNIA. ALL APPROVED METHODS OF VEGETATION CONTROL WOULD BE AVAILABLE FOR USE IN AN INTEGRATED PROGRAM. ANNUAL TREATMENTS WOULD INCLUDE APPROXIMATELY 20,000 ACRES OF BURNING, 41,000 ACRES OF HERBICIDE APPLICATION, 14,000 ACRES OF MECHANICAL TREATMENTS, AND 17,000 ACRES OF MANUAL TREATMENTS. BURNING, HERBICIDE APPLICATION, SCARIFICATION, AND MANUAL TREATMENTS WOULD BE USED FOR SITE PREPARATION. CHEMICAL AND MANUAL METHODS WOULD BE USED FOR RELEASE AND PRECOMMERCIAL THINNING. ROADSIDE VEGETATION AND NOXIOUS WEEDS WOULD BE CONTROLLED VIA MECHANICAL, CHEMICAL, AND MANUAL METHODS. STREAMSIDE BUFFERS WOULD BE PROVIDED IN ACCORDANCE WITH BLM POLICY. ESTIMATED COST OF THE PROGRAM IS $12.5 MILLION. (POS)CONTROL OF VEGETATION THAT COMPETES WITH COMMERCIALLY EXPLOITABLE TIMBER WOULD INCREASE EARNINGS IN THE WESTERN PART OF THE STATE BY $49.0 MILLION AND WOULD INCREASE EMPLOYMENT ROLLS BY 2,545 JOBS. THE PROGRAM WOULD AID IN MEETING REGIONAL NEEDS FOR TIMBER PRODUCTS. (NEG)PRESCRIBED BURNING WOULD INCREASE PRODUCTIVITY ON 54 PERCENT MORE ACRES BURNED EACH YEAR. SMOKE AND SEDIMENTATION LEVELS WOULD INCREASE SOMEWHAT, AND THE NUMBER OF WATER SAMPLES CONTAINING HERBICIDES WOULD DOUBLE. SLIGHT INCREASES IN THE TEMPERATURE OF SURFACE FLOWS WOULD BE LIKELY. MODERATE REDUCTIONS IN THE BIG GAME POPULATION WOULD OCCUR, AND A REDUCTION IN THE DIVERSITY OF TERRESTRIAL HABITAT FOR SMALL BIRDS AND MAMMALS WOULD RESULT. (LEG)COOS BAY WAGON ROAD ACT OF 1939 (43 U.S.C. 1181F ET SEQ.), FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976 (43 U.S.C. 1701 ET SEQ.), AND OREGON AND CALIFORNIA ACT OF 1937 (43 U.S.C. 1181A

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